

TEST REPORT

Application No.: SZCR2403000767WM
Applicant: Sonim Technologies, Inc.
Address of Applicant: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer: Sonim Technologies, Inc.
Address of Manufacturer: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Equipment Under Test (EUT):
EUT Name: smartphone
Model No.: X800
Type No.: S6002
Trade Mark: Sonim
FCC ID: WYPS6002
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-03-07
Date of Test: 2024-03-20 to 2024-07-23
Date of Issue: 2024-08-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



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Shenzhen Branch (EMC Laboratory)

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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-09		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.87V by Li-ion battery(5000mAh) Recharged by AC/DC power adapter Adapter M/N:1-CHUSQ302-097 Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD Adapter output: 5V/3A,9V/2A,12V/1.5A Battery M/N:BAT-05000-21S Battery Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.
Cable(s):	USB type C cable M/N: HX-YLMK-16 1.5m shielded cable without ferrite core USB type C cable manufacturer: HUIZHOU WASHIN ELECTRONICS CO.,LTD
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels) U-NII-2A: 5260-5320MHz (4 Channels) U-NII-2C: 5500-5700MHz (11 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels) U-NII-2A: 5270-5310MHz (2 Channels) U-NII-2C: 5510-5670MHz (5 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel) U-NII-2A: 5290MHz (1 Channel) U-NII-2C: 5530-5610MHz (2 Channels) U-NII-3: 5775MHz (1 Channel)
Operation Frequency / Number of channels (160MHz):	U-NII-1/2A: 5250MHz (1 Channel); U-NII-2C: 5570MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz 802.11n/ac/ax 40: 40MHz 802.11ac/ax 80: 80MHz 802.11ax 160: 320MHz
DFS Function:	Slave without radar detection function
TPC Function:	Not support
Antenna Type:	PIFA Antenna



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Antenna Gain:	U-NII-1/2A: Ant9: -1.5dBi, Ant10: -1.40dBi, directional gain: 1.56dBi U-NII-2C/3: Ant9: -2.05dBi, Ant10: -1.46dBi, directional gain:1.26dBi
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$



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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26



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Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
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26dB Emission bandwidth

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13



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Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	HTC-1	1	SZ-WRG-M-022	2024-02-16	2025-02-17

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	HTC-1	1	SZ-WRG-M-022	2024-02-16	2025-02-17



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Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

DFS					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2023-03-28 2024-03-27	2024-03-27 2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the U-NII-1/2A: Ant9: -1.5dBi, Ant10: -1.40dBi, directional gain: 1.56dBi

U-NII-2C/3: Ant9: -2.05dBi, Ant10: -1.46dBi, directional gain:1.26dBi

Antenna location: Refer to internal photo.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detected absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 47.5 % RH

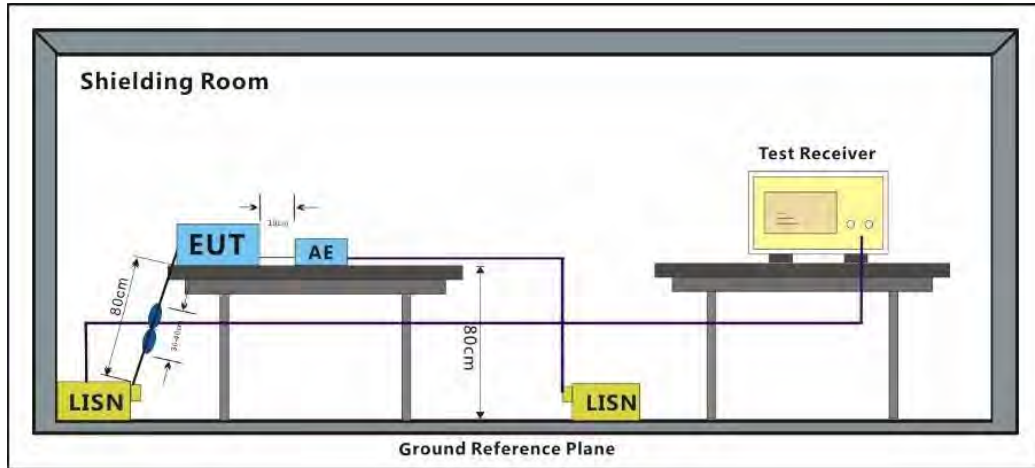
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



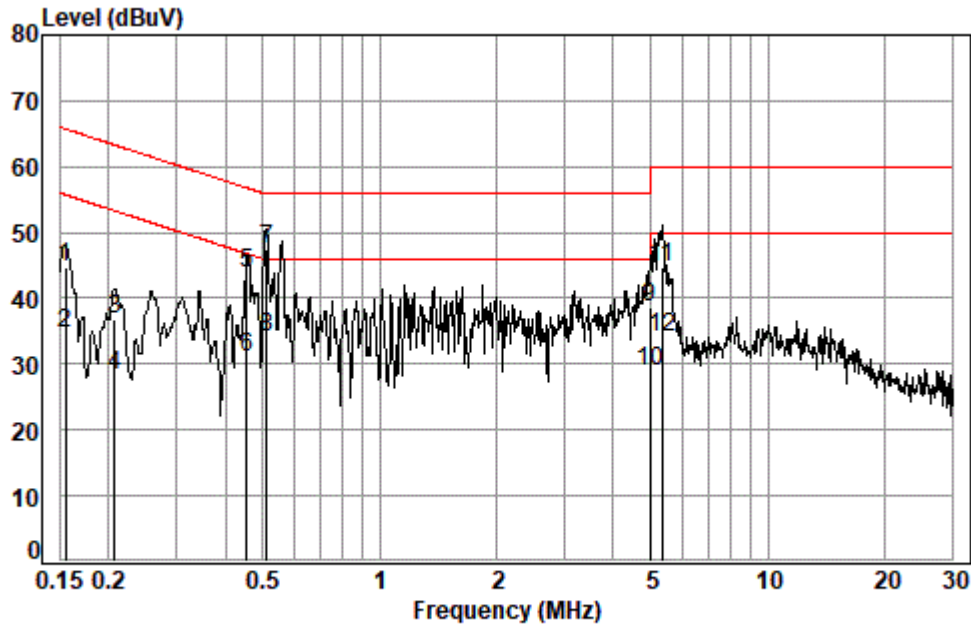
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Test Mode: 09; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00767WM
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.02	9.89	34.86	44.77	65.74	-20.97	QP
2	0.1548	0.02	9.89	24.76	34.67	55.74	-21.07	Average
3	0.2072	0.02	9.94	26.93	36.89	63.32	-26.43	QP
4	0.2072	0.02	9.94	18.41	28.37	53.32	-24.95	Average
5	0.4539	0.04	10.00	33.68	43.72	56.80	-13.08	QP
6	0.4539	0.04	10.00	21.04	31.08	46.80	-15.72	Average
7 *	0.5128	0.04	9.99	37.44	47.47	56.00	-8.53	QP
8 *	0.5128	0.04	9.99	24.06	34.09	46.00	-11.91	Average
9	4.9782	0.09	10.04	28.43	38.56	56.00	-17.44	QP
10	4.9782	0.09	10.04	18.74	28.87	46.00	-17.13	Average
11	5.3332	0.10	10.05	34.43	44.58	60.00	-15.42	QP
12	5.3332	0.10	10.05	23.97	34.12	50.00	-15.88	Average



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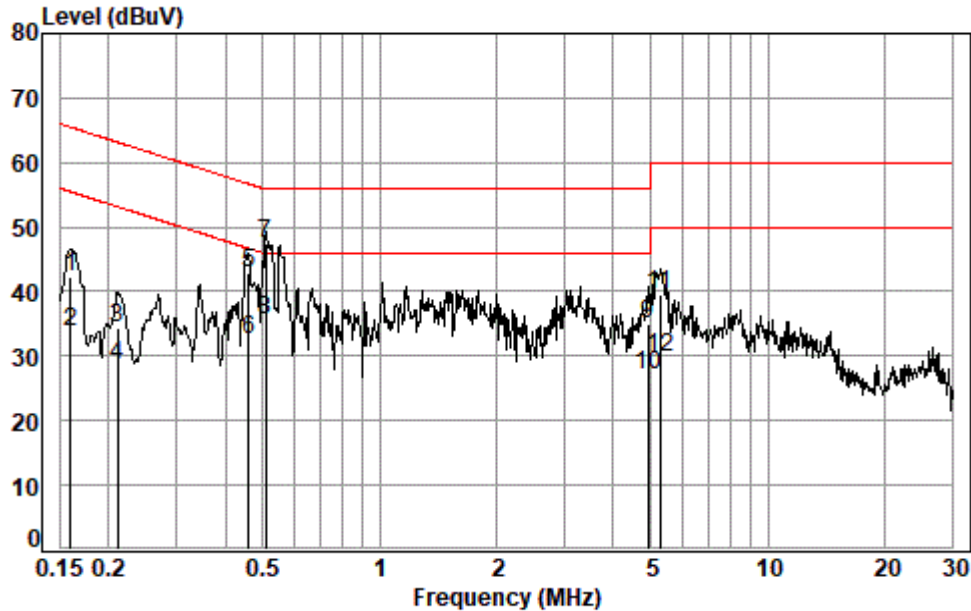
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Test Mode: 09; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00767WM
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1598	0.02	9.89	32.29	42.20	65.47	-23.27	QP
2	0.1598	0.02	9.89	23.85	33.76	55.47	-21.71	Average
3	0.2117	0.02	9.92	24.33	34.27	63.14	-28.87	QP
4	0.2117	0.02	9.92	18.66	28.60	53.14	-24.54	Average
5	0.4588	0.04	9.92	32.97	42.93	56.71	-13.78	QP
6	0.4588	0.04	9.92	22.70	32.66	46.71	-14.05	Average
7 *	0.5101	0.04	9.93	37.44	47.41	56.00	-8.59	QP
8 *	0.5101	0.04	9.93	25.56	35.53	46.00	-10.47	Average
9	4.9257	0.09	10.01	24.95	35.05	56.00	-20.95	QP
10	4.9257	0.09	10.01	16.87	26.97	46.00	-19.03	Average
11	5.2770	0.09	10.02	29.53	39.64	60.00	-20.36	QP
12	5.2770	0.09	10.02	19.73	29.84	50.00	-20.16	Average



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



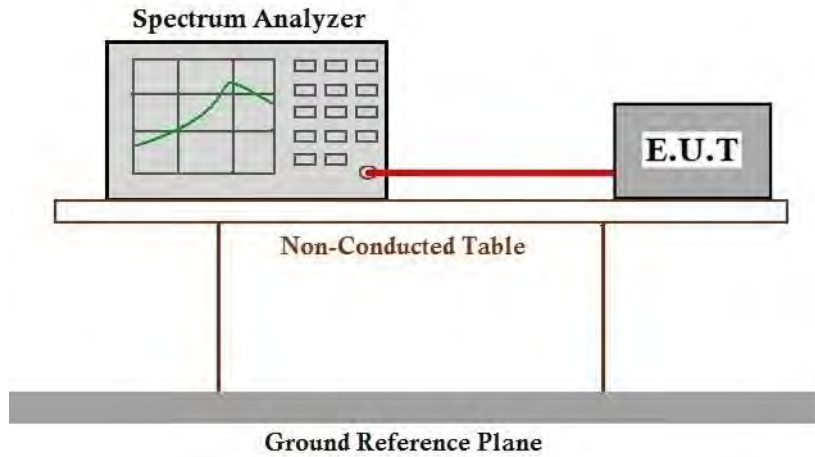
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.3 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



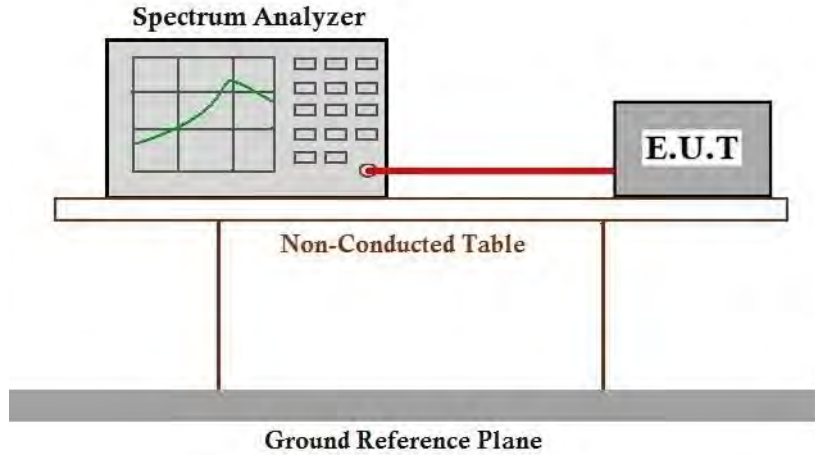
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

Humidity: 54.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



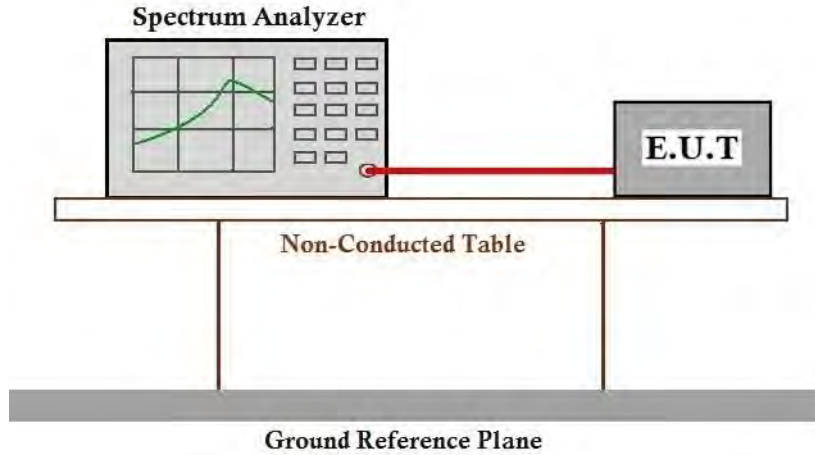
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

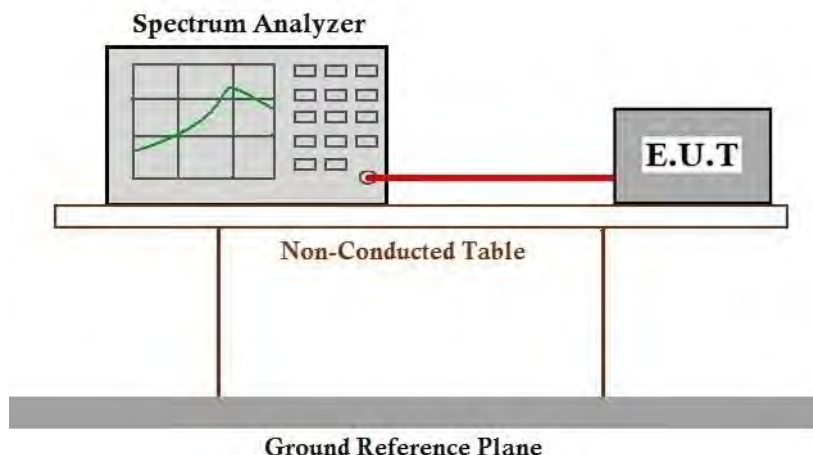
Humidity: 54.8 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



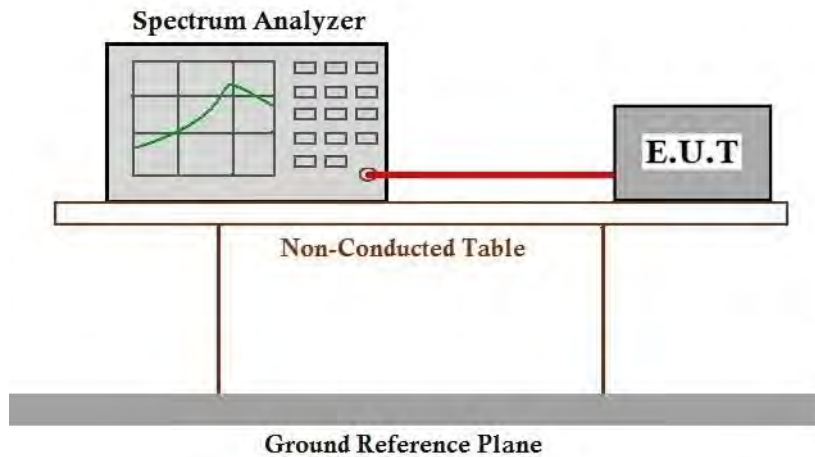
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

Humidity: 54.8 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



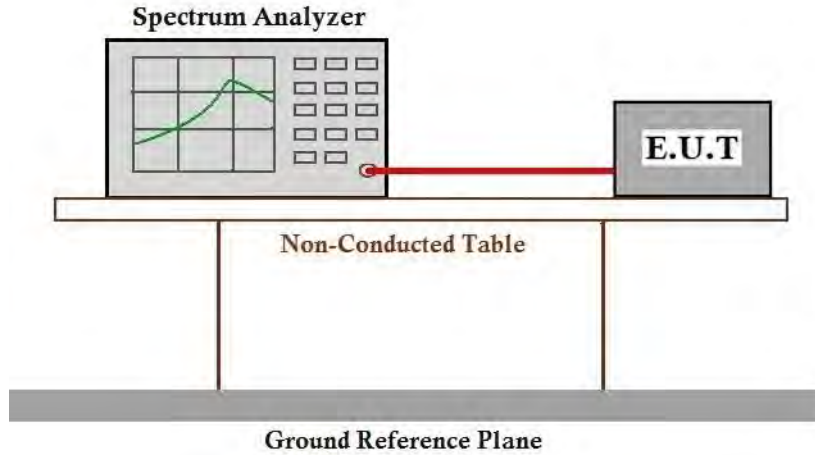
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.8 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 45.2 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



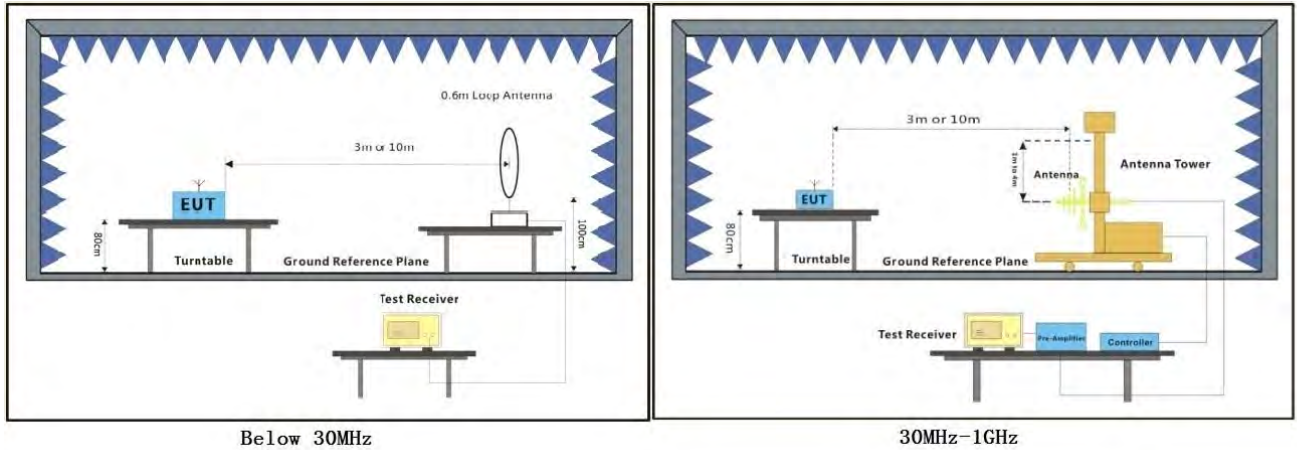
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.8.3 Test Setup Diagram



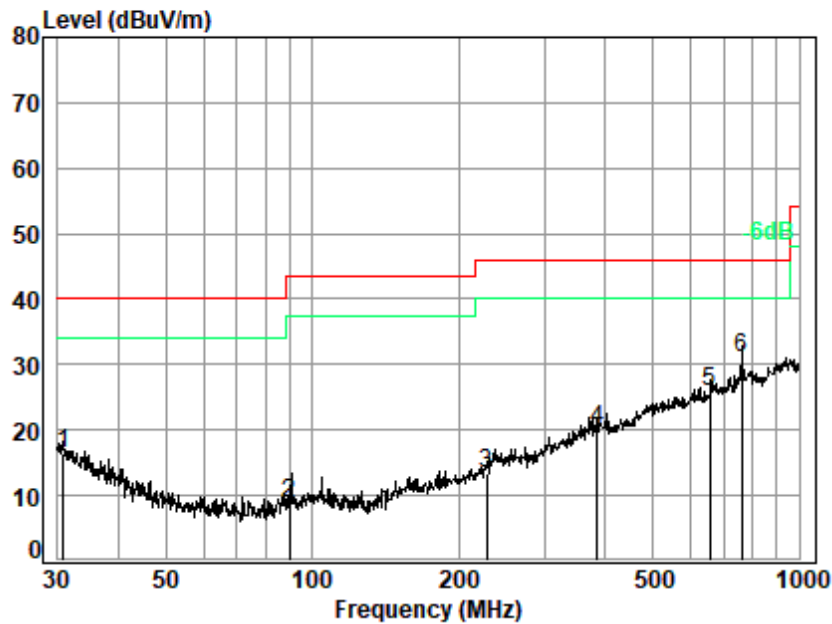
7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test Mode: 09; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00767WM
Test Mode: 09

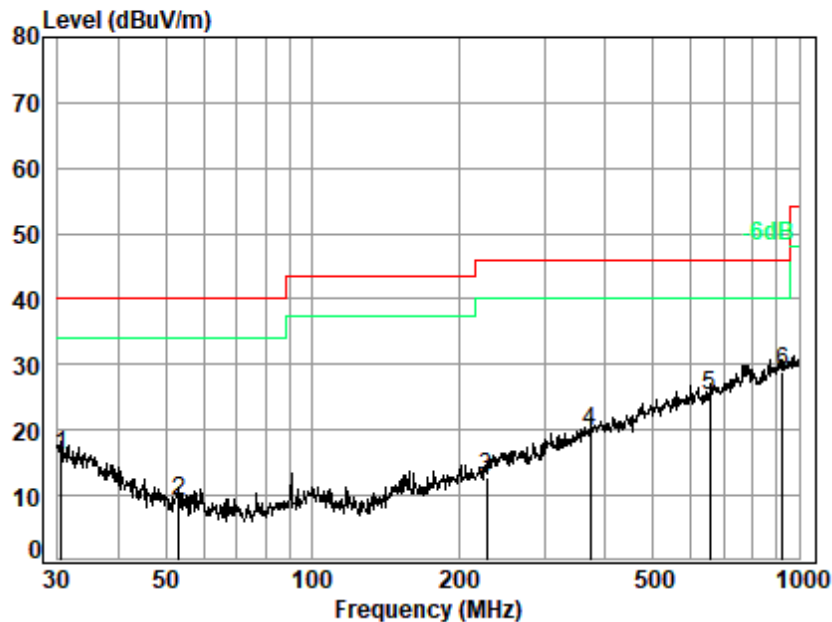
	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV dBuV/m	dBuV/m	dB	
1	30.85	20.81	0.65	27.79	22.73 16.40	40.00	-23.60	QP
2	89.90	11.72	1.13	27.62	23.53 8.76	43.50	-34.74	QP
3	228.49	16.23	1.86	27.05	22.30 13.34	46.00	-32.66	QP
4	385.28	20.89	2.49	27.10	23.66 19.94	46.00	-26.06	QP
5	656.53	25.07	3.38	27.83	25.17 25.79	46.00	-20.21	QP
6 q	763.38	26.52	3.71	27.57	28.27 30.93	46.00	-15.07	QP



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Test Mode: 09; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00767WM
Test Mode: 09

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB
1	30.53	20.95	0.65	27.79	22.34	16.15	40.00 -23.85 QP
2	53.32	12.24	0.86	27.72	23.84	9.22	40.00 -30.78 QP
3	228.49	16.23	1.86	27.05	21.78	12.82	46.00 -33.18 QP
4	373.31	20.61	2.45	27.05	23.81	19.82	46.00 -26.18 QP
5	656.53	25.07	3.38	27.83	24.53	25.15	46.00 -20.85 QP
6 q	925.76	28.18	4.16	26.58	23.05	28.81	46.00 -17.19 QP



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7.9 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 51.6 % RH

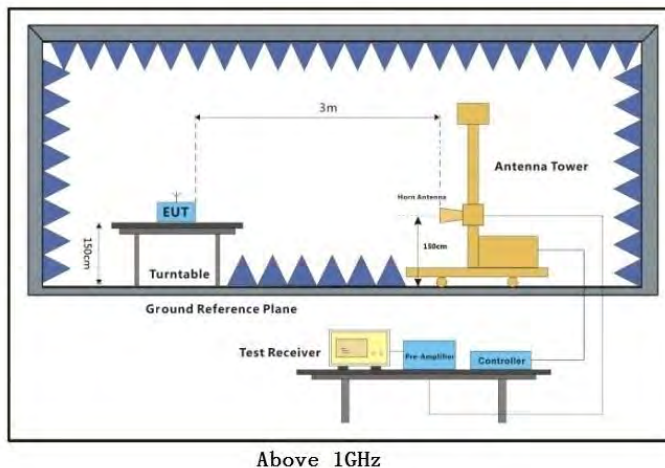
Atmospheric Pressure: 1020 mbar



7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

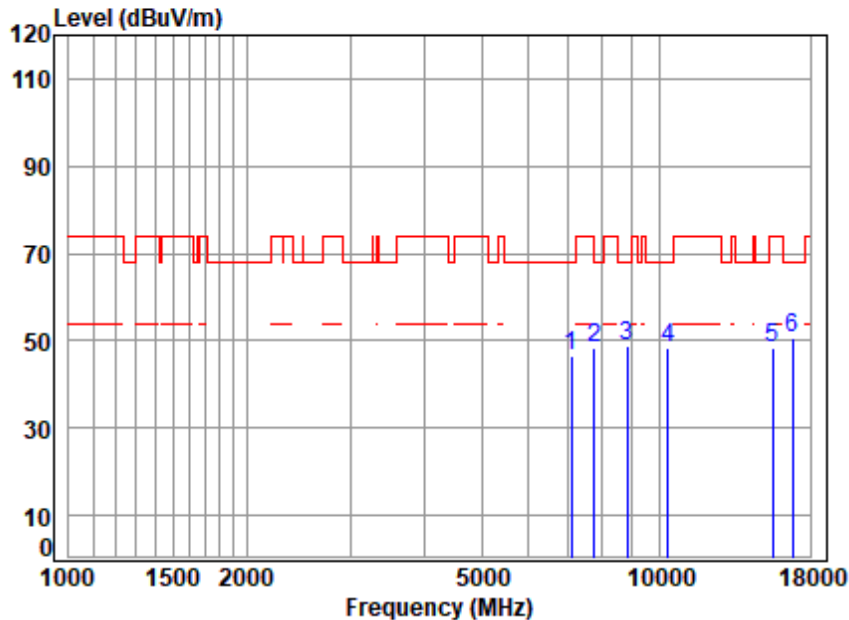
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11A

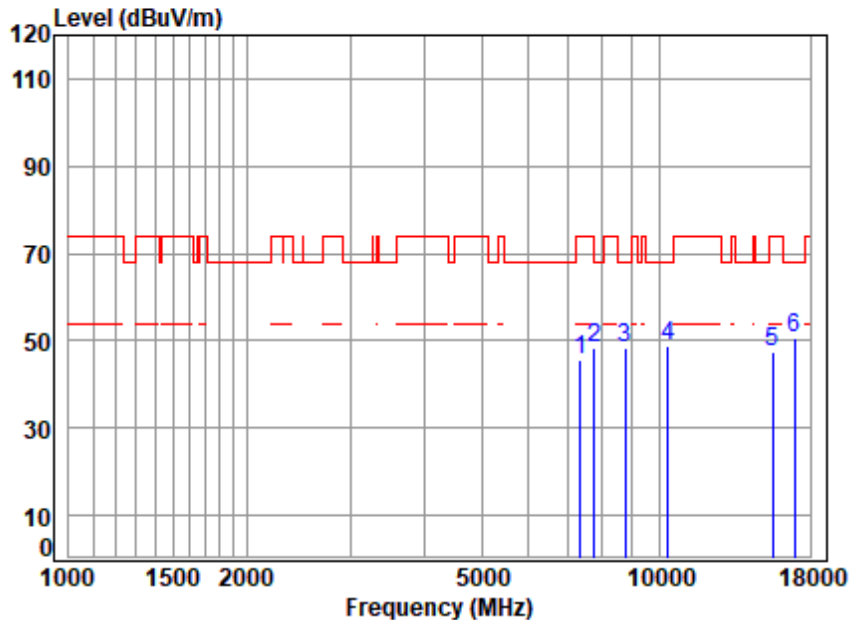
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	54.82	46.58	68.20	-21.62 peak
2	7768.304	11.35	37.07	56.09	55.93	48.26	68.20	-19.94 peak
3	8832.090	12.24	38.50	55.15	53.14	48.73	68.20	-19.47 peak
4	10360.000	13.60	39.00	53.88	49.81	48.53	68.20	-19.67 peak
5	15540.000	17.00	38.56	54.14	46.75	48.17	74.00	-25.83 peak
6	pp16829.720	17.67	39.60	54.25	47.51	50.53	68.20	-17.67 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11A

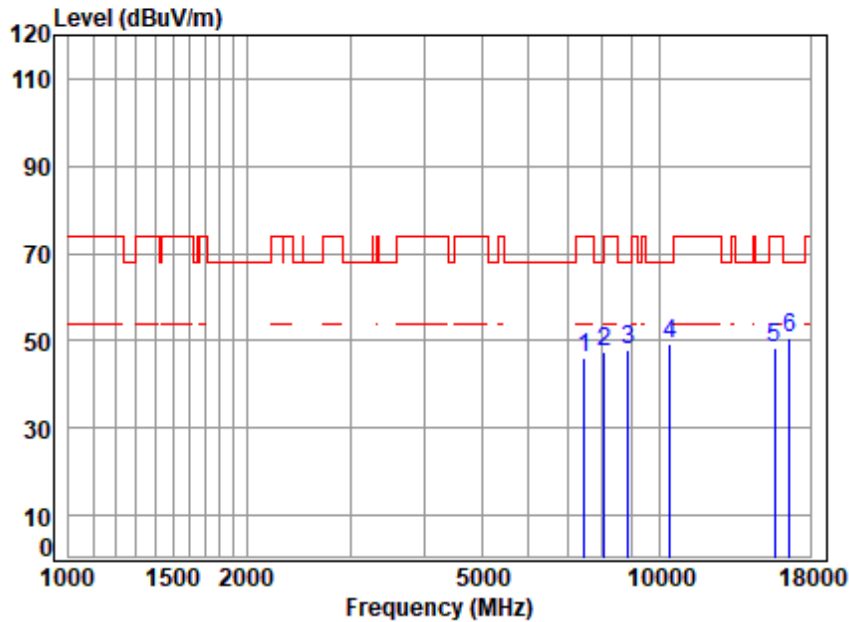
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	53.81	45.69	74.00	-28.31 peak
2	7768.304	11.35	37.07	56.09	56.03	48.36	68.20	-19.84 peak
3	8742.585	12.16	38.51	55.23	53.02	48.46	68.20	-19.74 peak
4	10360.000	13.60	39.00	53.88	49.90	48.62	68.20	-19.58 peak
5	15540.000	17.00	38.56	54.14	46.21	47.63	74.00	-26.37 peak
6	pp16915.650	18.16	39.62	54.27	47.02	50.53	68.20	-17.67 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7473.371	11.30	36.80	56.32	54.32	46.10	74.00	-27.90 peak
2	8083.105	11.47	37.80	55.83	54.16	47.60	74.00	-26.40 peak
3	8850.100	12.23	38.50	55.13	52.23	47.83	68.20	-20.37 peak
4	10440.000	13.63	39.04	53.84	50.36	49.19	68.20	-19.01 peak
5	15660.000	17.23	38.56	54.10	46.89	48.58	74.00	-25.42 peak
6	pp16591.430	17.66	39.17	54.18	48.15	50.80	68.20	-17.40 peak

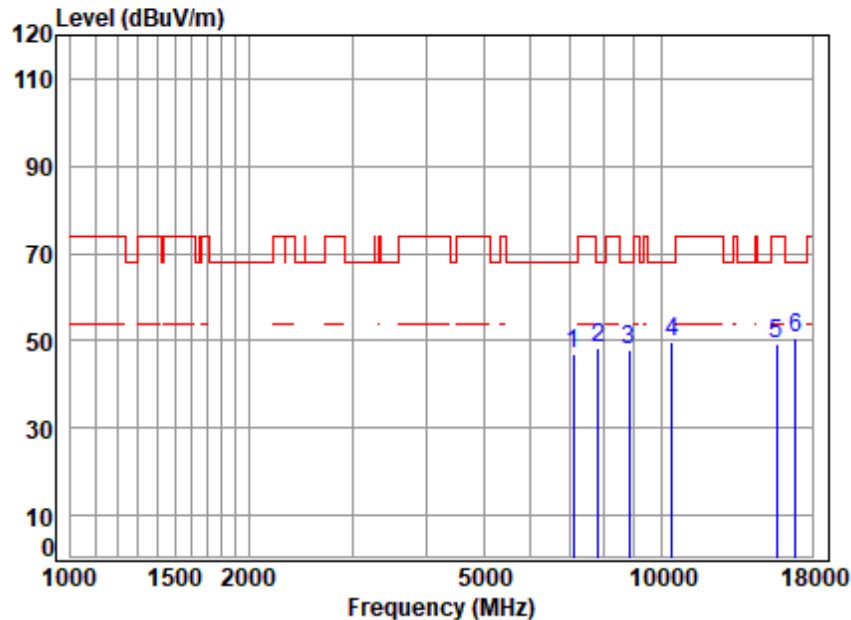


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11A

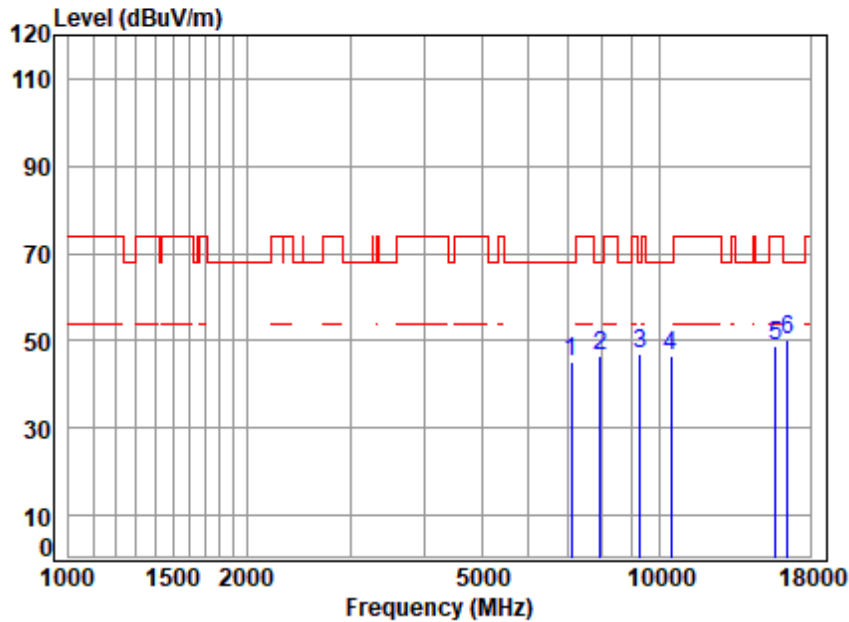
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	55.36	47.02	68.20	-21.18 peak
2	7831.863	11.38	37.33	56.03	55.89	48.57	68.20	-19.63 peak
3	8814.115	12.25	38.50	55.17	52.55	48.13	68.20	-20.07 peak
4	10440.000	13.63	39.04	53.84	51.02	49.85	68.20	-18.35 peak
5	15660.000	17.23	38.56	54.10	47.68	49.37	74.00	-24.63 peak
6	pp16864.040	17.92	39.60	54.26	47.61	50.87	68.20	-17.33 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.32	45.08	68.20	-23.12 peak
2	7936.257	11.55	37.67	55.95	53.26	46.53	68.20	-21.67 peak
3	9274.632	12.21	38.24	54.75	51.16	46.86	68.20	-21.34 peak
4	10480.000	13.64	39.08	53.81	47.67	46.58	68.20	-21.62 peak
5	15720.000	17.22	38.58	54.08	46.96	48.68	74.00	-25.32 peak
6	pp16507.140	17.73	38.92	54.15	47.56	50.06	68.20	-18.14 peak



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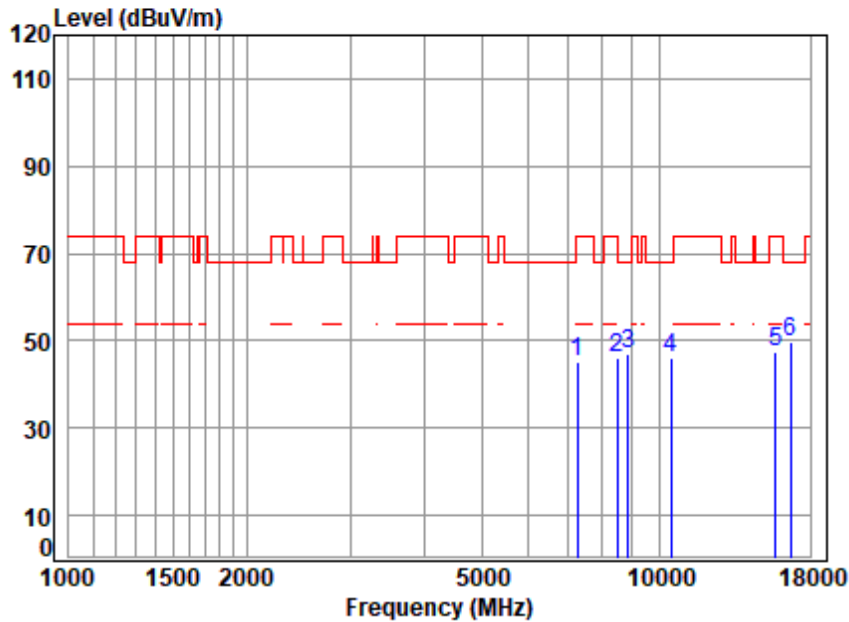
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7278.053	11.51	36.66	56.48	53.28	44.97	74.00	-29.03 peak
2	8496.769	12.29	38.31	55.45	50.85	46.00	74.00	-28.00 peak
3	8859.119	12.23	38.52	55.13	51.27	46.89	68.20	-21.31 peak
4	10480.000	13.64	39.08	53.81	47.29	46.20	68.20	-22.00 peak
5	15720.000	17.22	38.58	54.08	45.76	47.48	74.00	-26.52 peak
6	pp16693.140	17.59	39.39	54.21	47.04	49.81	68.20	-18.39 peak



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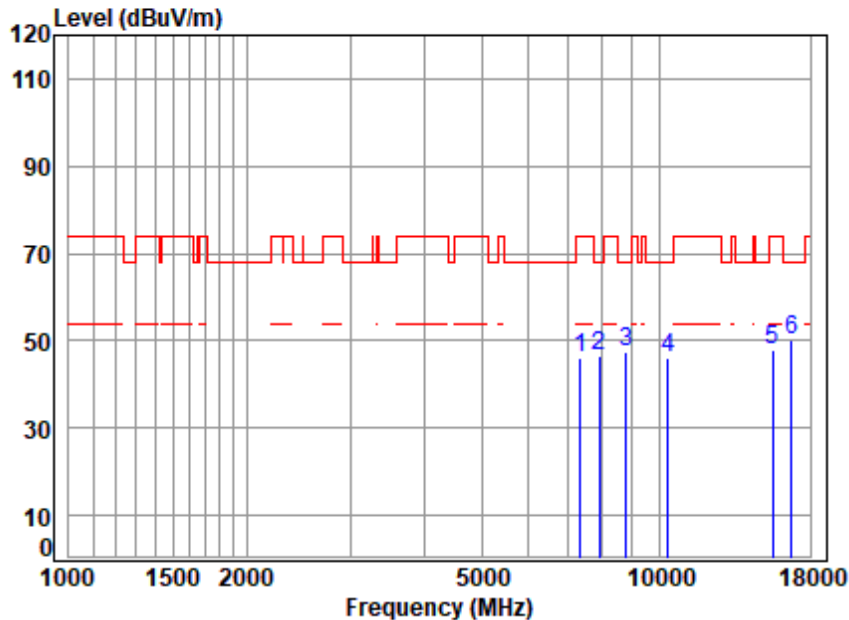
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	54.13	46.01	74.00	-27.99 peak
2	7928.178	11.55	37.66	55.96	53.27	46.52	68.20	-21.68 peak
3	8796.179	12.24	38.50	55.18	52.09	47.65	68.20	-20.55 peak
4	10360.000	13.60	39.00	53.88	47.54	46.26	68.20	-21.94 peak
5	15540.000	17.00	38.56	54.14	46.69	48.11	74.00	-25.89 peak
6	pp16744.220	17.53	39.49	54.22	47.17	49.97	68.20	-18.23 peak



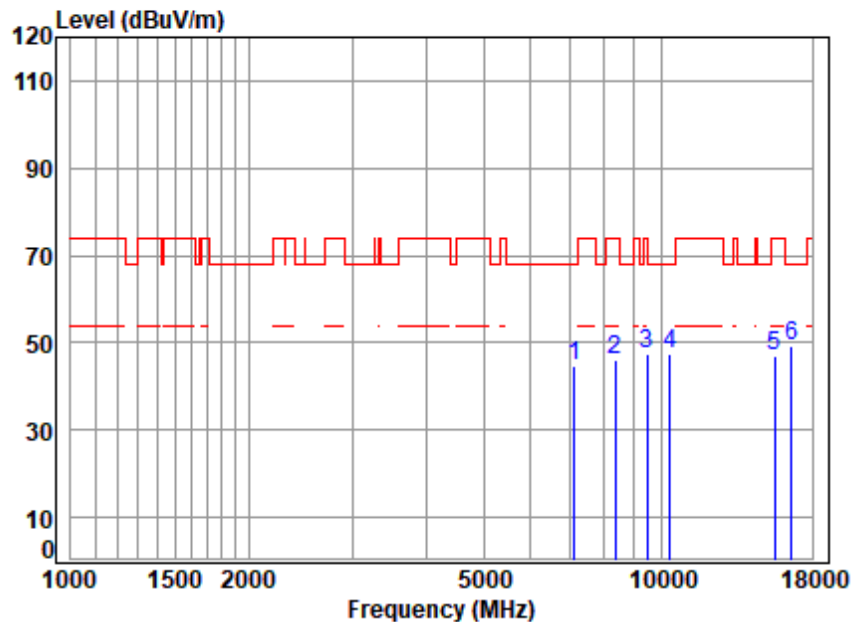
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7116.776	11.91	36.43	56.61	53.16	44.89	68.20 -23.31 peak
2	8367.938	11.67	38.66	55.57	51.20	45.96	74.00 -28.04 peak
3	9455.871	12.45	38.81	54.59	50.57	47.24	74.00 -26.76 peak
4	10360.000	13.60	39.00	53.88	48.88	47.60	68.20 -20.60 peak
5	15540.000	17.00	38.56	54.14	45.73	47.15	74.00 -26.85 peak
6	pp16591.430	17.66	39.17	54.18	46.61	49.26	68.20 -18.94 peak



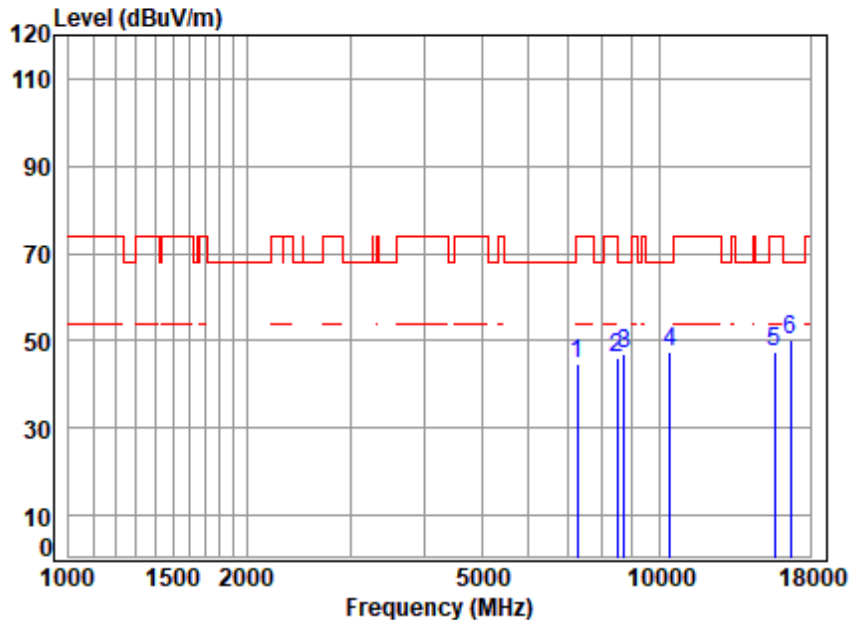
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7270.644	11.51	36.64	56.48	52.96	44.63	74.00 -29.37 peak
2	8496.769	12.29	38.31	55.45	51.02	46.17	74.00 -27.83 peak
3	8715.911	12.12	38.57	55.26	51.46	46.89	68.20 -21.31 peak
4	10440.000	13.63	39.04	53.84	48.75	47.58	68.20 -20.62 peak
5	15660.000	17.23	38.56	54.10	45.73	47.42	74.00 -26.58 peak
6	pp16710.150	17.58	39.42	54.21	47.27	50.06	68.20 -18.14 peak



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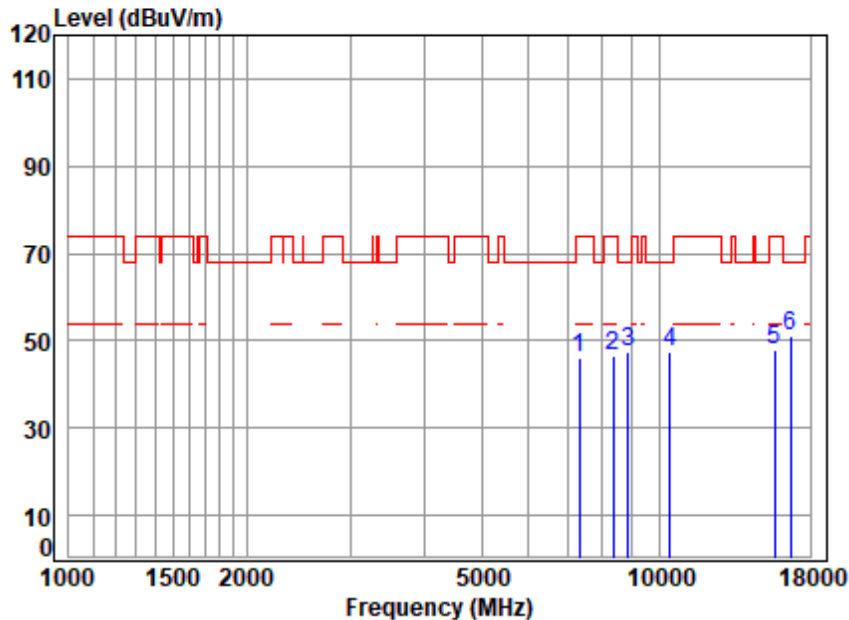
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	54.27	46.09	74.00	-27.91 peak
2	8342.406	11.70	38.58	55.59	51.96	46.65	74.00	-27.35 peak
3	8868.147	12.23	38.54	55.12	51.94	47.59	68.20	-20.61 peak
4	10440.000	13.63	39.04	53.84	48.40	47.23	68.20	-20.97 peak
5	15660.000	17.23	38.56	54.10	46.14	47.83	74.00	-26.17 peak
6	pp16693.140	17.59	39.39	54.21	48.18	50.95	68.20	-17.25 peak



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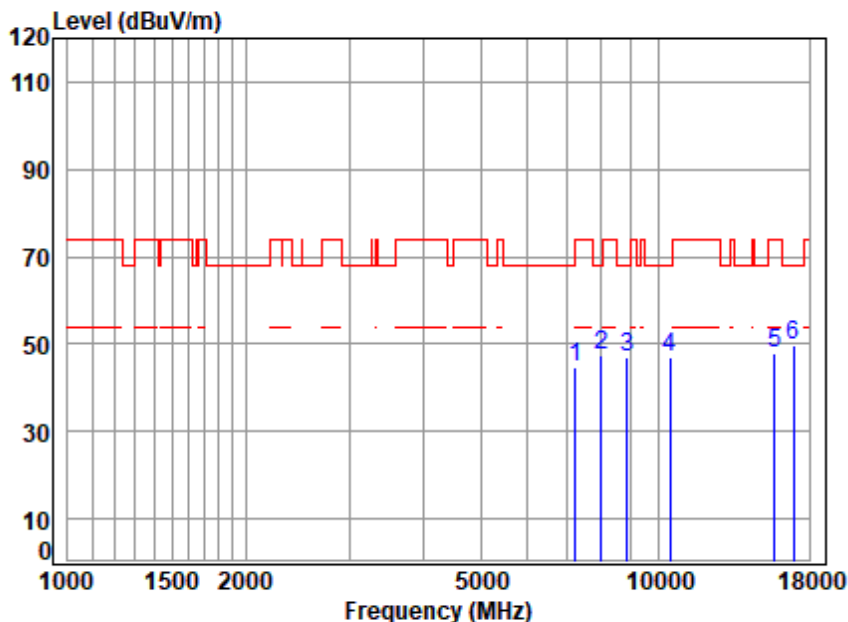
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7233.709	11.52	36.60	56.51	53.25	44.86	68.20	-23.34	peak
2	8001.191	11.56	37.80	55.90	53.82	47.28	68.20	-20.92	peak
3	8850.100	12.23	38.50	55.13	51.56	47.16	68.20	-21.04	peak
4	10480.000	13.64	39.08	53.81	48.02	46.93	68.20	-21.27	peak
5	15720.000	17.22	38.58	54.08	46.36	48.08	74.00	-25.92	peak
6	pp16967.410	18.11	39.67	54.29	46.37	49.86	68.20	-18.34	peak



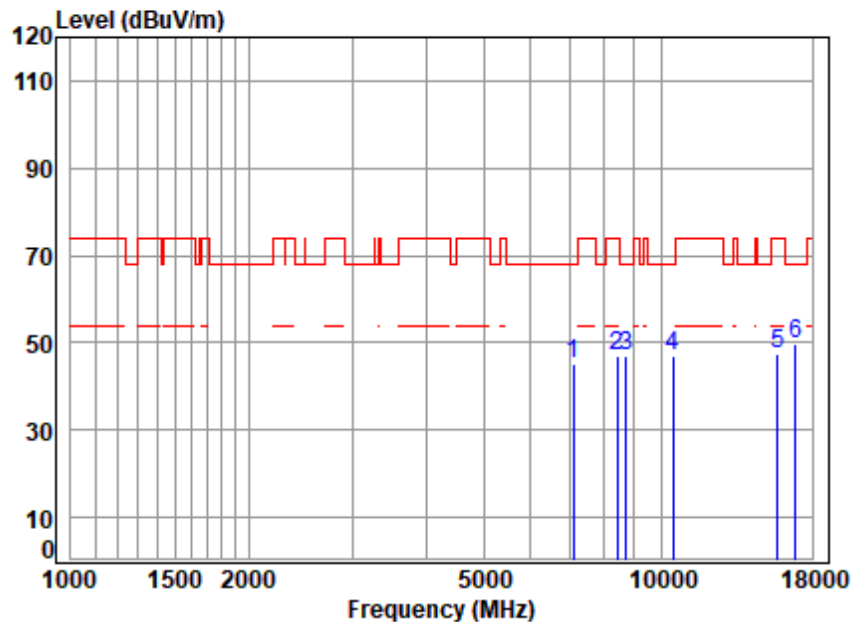
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7102.293	11.98	36.40	56.62	53.43	45.19	68.20 -23.01 peak
2	8436.402	11.88	38.45	55.51	52.24	47.06	74.00 -26.94 peak
3	8715.911	12.12	38.57	55.26	51.51	46.94	68.20 -21.26 peak
4	10480.000	13.64	39.08	53.81	48.19	47.10	68.20 -21.10 peak
5	15720.000	17.22	38.58	54.08	45.52	47.24	74.00 -26.76 peak
6	pp16881.220	18.04	39.60	54.26	46.36	49.74	68.20 -18.46 peak



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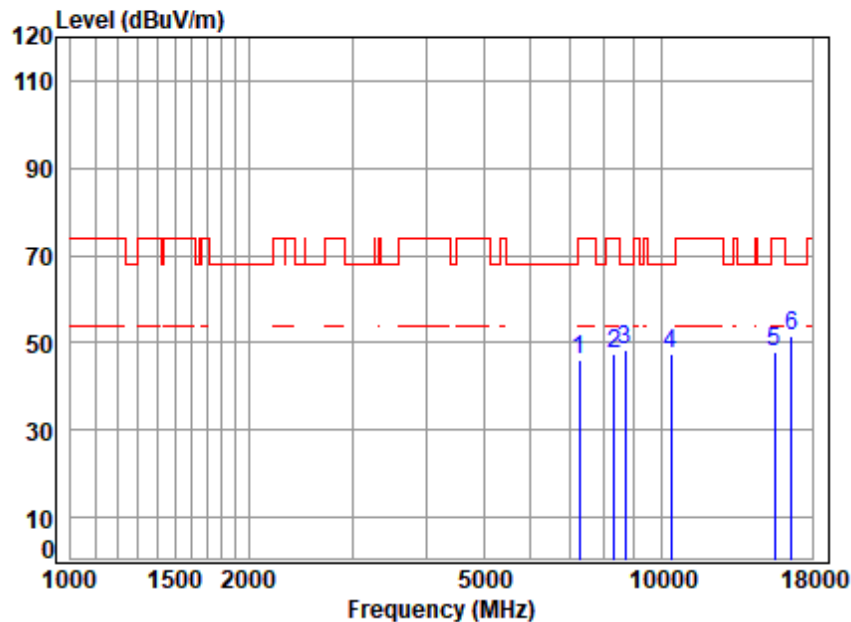
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5190 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7263.242	11.51	36.63	56.49	54.35	46.00	74.00	-28.00 peak
2	8325.429	11.73	38.31	55.61	52.88	47.31	74.00	-26.69 peak
3	8671.635	12.05	38.49	55.30	53.15	48.39	68.20	-19.81 peak
4	10380.000	13.61	39.00	53.87	48.53	47.27	68.20	-20.93 peak
5	15570.000	17.09	38.53	54.13	46.60	48.09	74.00	-25.91 peak
6	pp16642.210	17.62	39.28	54.19	49.05	51.76	68.20	-16.44 peak



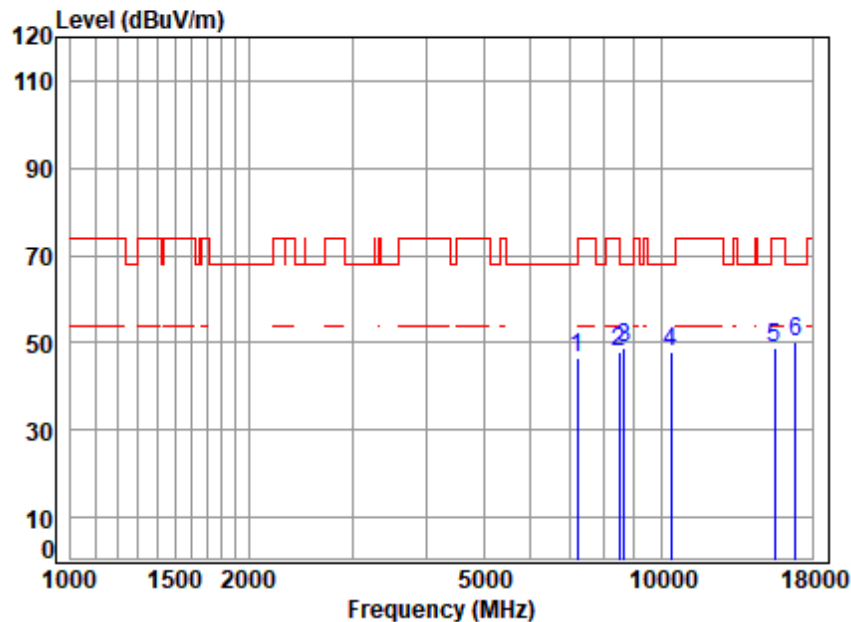
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5190 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7196.963	11.53	36.59	56.54	54.86	46.44	68.20 -21.76 peak
2	8488.119	12.23	38.32	55.46	52.63	47.72	74.00 -26.28 peak
3	8662.807	12.04	38.45	55.30	53.44	48.63	68.20 -19.57 peak
4	10380.000	13.61	39.00	53.87	49.35	48.09	68.20 -20.11 peak
5	15570.000	17.09	38.53	54.13	47.21	48.70	74.00 -25.30 peak
6	pp16898.430	18.17	39.60	54.27	46.81	50.31	68.20 -17.89 peak



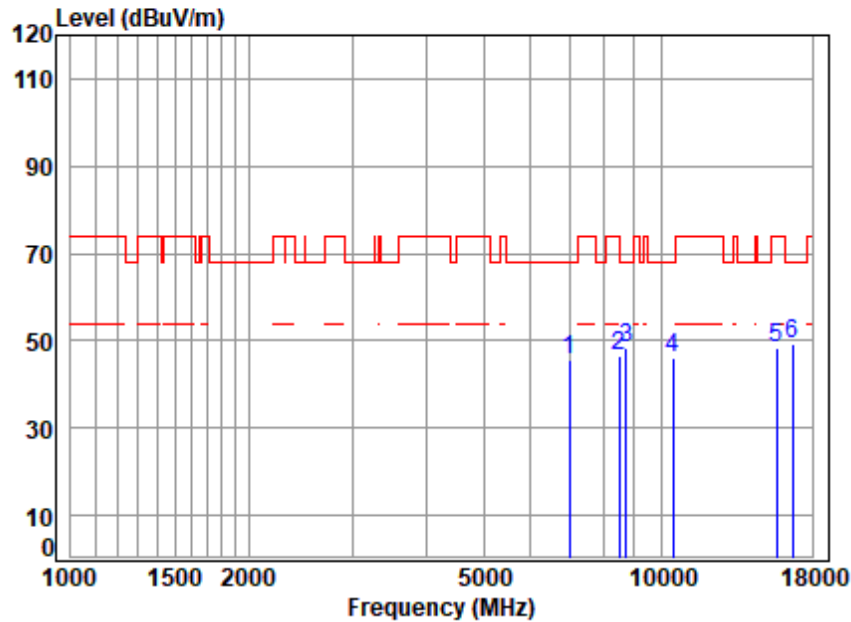
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5230 TX RSE

: 5GWIFI MIMO 11AC40

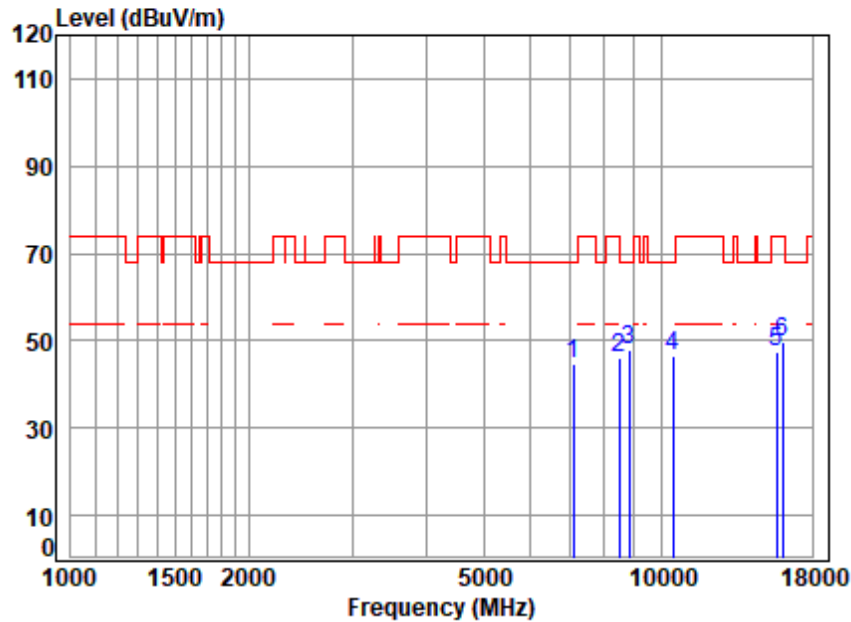
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6980.371	11.37	36.16	56.70	54.65	45.48	68.20	-22.72 peak
2	8488.119	12.23	38.32	55.46	51.31	46.40	74.00	-27.60 peak
3	8707.038	12.10	38.59	55.26	53.16	48.59	68.20	-19.61 peak
4	10460.000	13.63	39.06	53.82	47.42	46.29	68.20	-21.91 peak
5	15690.000	17.26	38.59	54.09	46.65	48.41	74.00	-25.59 peak
6	pp16710.150	17.58	39.42	54.21	46.71	49.50	68.20	-18.70 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5230 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7087.840	11.91	36.38	56.63	53.05	44.71	68.20 -23.49 peak
2	8479.478	12.17	38.34	55.47	51.10	46.14	74.00 -27.86 peak
3 pp	8823.098	12.24	38.50	55.16	52.25	47.83	68.20 -20.37 peak
4	10460.000	13.63	39.06	53.82	47.85	46.72	68.20 -21.48 peak
5	15690.000	17.26	38.59	54.09	45.57	47.33	74.00 -26.67 peak
6	16026.680	17.13	38.57	54.01	48.20	49.89	74.00 -24.11 peak



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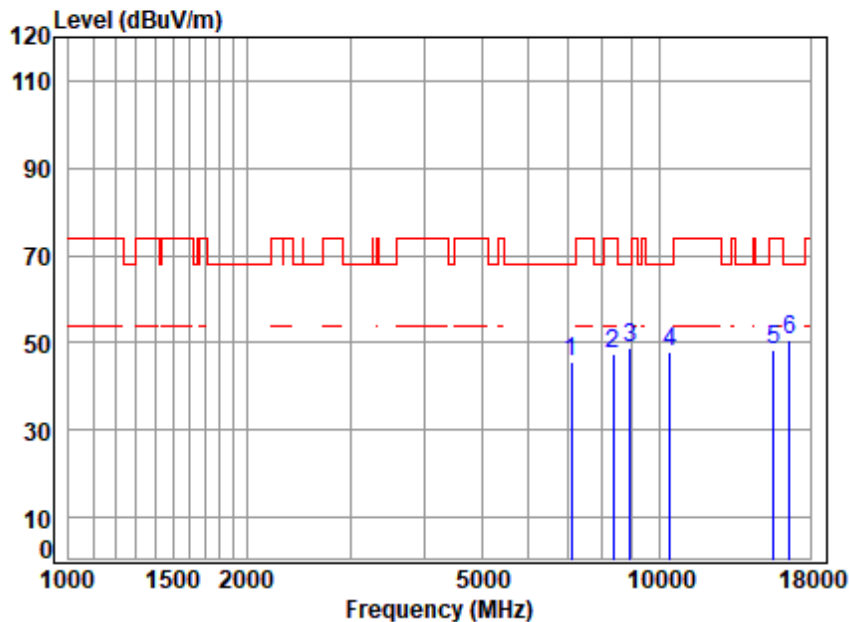
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5210 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	54.02	45.68	68.20	-22.52 peak
2	8350.908	11.69	38.70	55.58	52.76	47.57	74.00	-26.43 peak
3	8913.427	12.21	38.57	55.08	53.27	48.97	68.20	-19.23 peak
4	10420.000	13.62	39.02	53.85	49.22	48.01	68.20	-20.19 peak
5	15630.000	17.20	38.53	54.11	46.75	48.37	74.00	-25.63 peak
6	pp16625.260	17.63	39.25	54.19	47.85	50.54	68.20	-17.66 peak



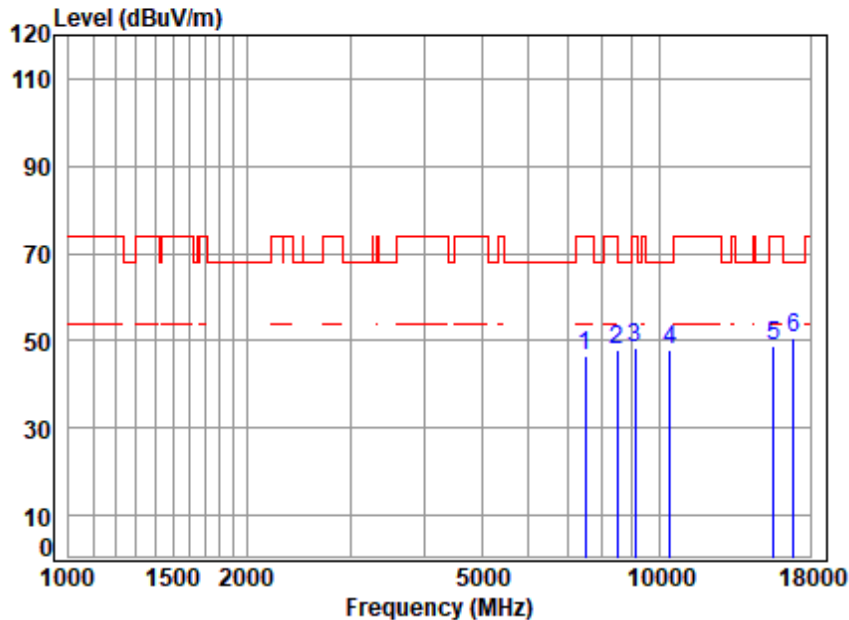
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5210 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7488.611	11.26	36.80	56.31	54.83	46.58	74.00	-27.42 peak
2	8496.769	12.29	38.31	55.45	52.72	47.87	74.00	-26.13 peak
3	9096.867	12.12	38.60	54.91	52.56	48.37	74.00	-25.63 peak
4	10420.000	13.62	39.02	53.85	49.16	47.95	68.20	-20.25 peak
5	15630.000	17.20	38.53	54.11	47.29	48.91	74.00	-25.09 peak
6	pp16864.040	17.92	39.60	54.26	47.20	50.46	68.20	-17.74 peak

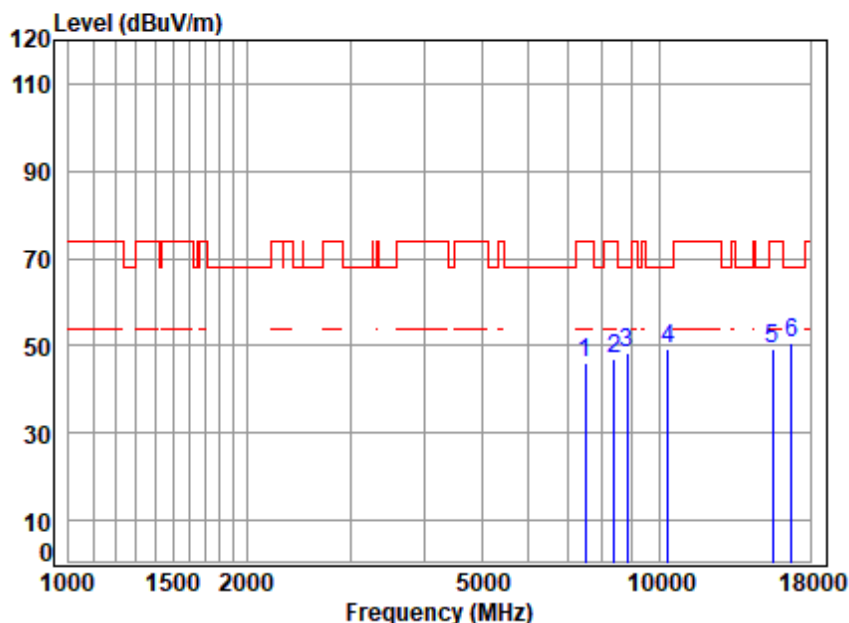
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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7480.987	11.28	36.80	56.32	54.20	45.96	74.00	-28.04 peak
2	8402.101	11.64	38.59	55.54	52.26	46.95	74.00	-27.05 peak
3	8832.090	12.24	38.50	55.15	52.70	48.29	68.20	-19.91 peak
4	10360.000	13.60	39.00	53.88	50.34	49.06	68.20	-19.14 peak
5	15540.000	17.00	38.56	54.14	47.83	49.25	74.00	-24.75 peak
6	pp16727.180	17.55	39.45	54.22	47.85	50.63	68.20	-17.57 peak



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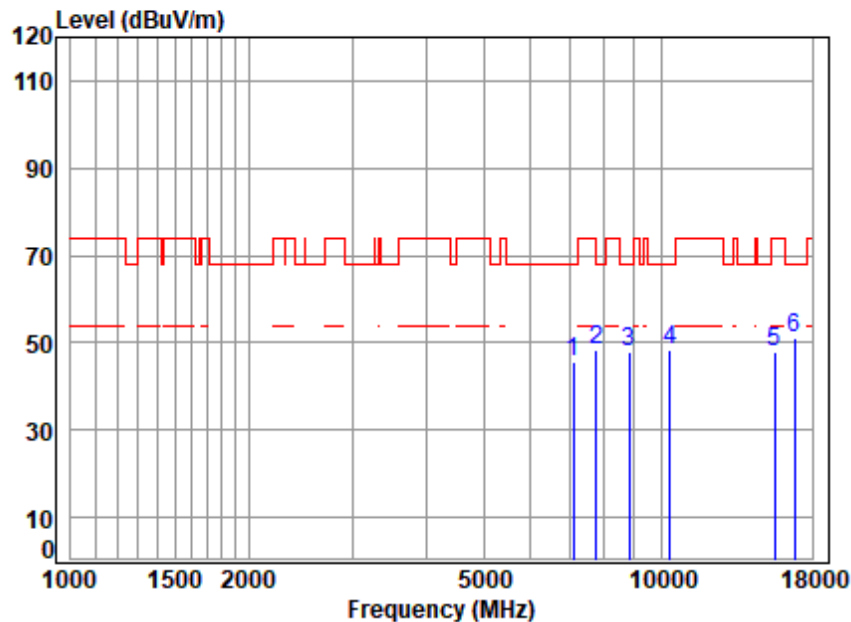
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	54.04	45.80	68.20	-22.40 peak
2	7768.304	11.35	37.07	56.09	56.24	48.57	68.20	-19.63 peak
3	8814.115	12.25	38.50	55.17	52.29	47.87	68.20	-20.33 peak
4	10360.000	13.60	39.00	53.88	49.46	48.18	68.20	-20.02 peak
5	15540.000	17.00	38.56	54.14	46.70	48.12	74.00	-25.88 peak
6	pp16829.720	17.67	39.60	54.25	48.05	51.07	68.20	-17.13 peak



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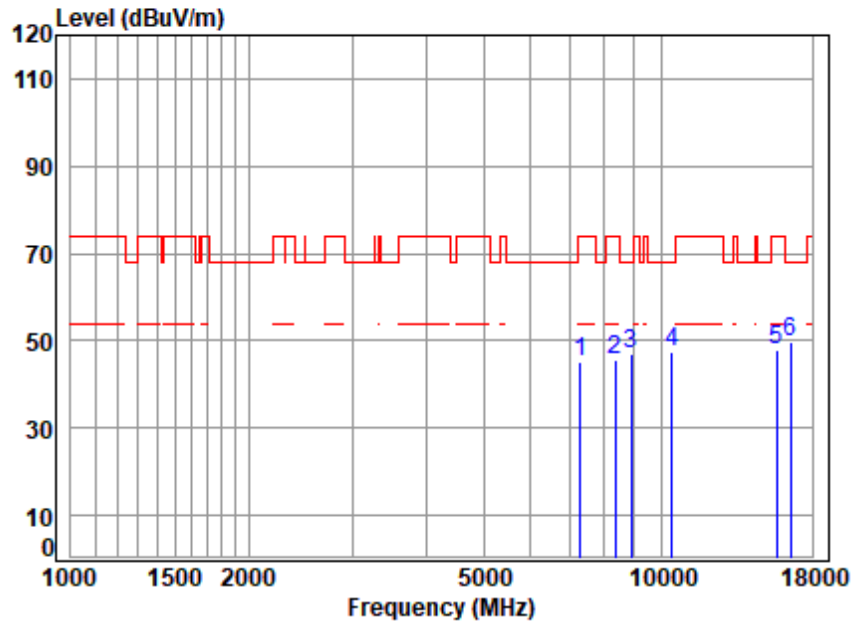
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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	53.51	45.24	74.00	-28.76 peak
2	8359.419	11.68	38.68	55.58	50.99	45.77	74.00	-28.23 peak
3	8886.231	12.22	38.57	55.10	51.16	46.85	68.20	-21.35 peak
4	10440.000	13.63	39.04	53.84	48.44	47.27	68.20	-20.93 peak
5	15660.000	17.23	38.56	54.10	46.04	47.73	74.00	-26.27 peak
6	pp16557.660	17.69	39.07	54.17	46.94	49.53	68.20	-18.67 peak



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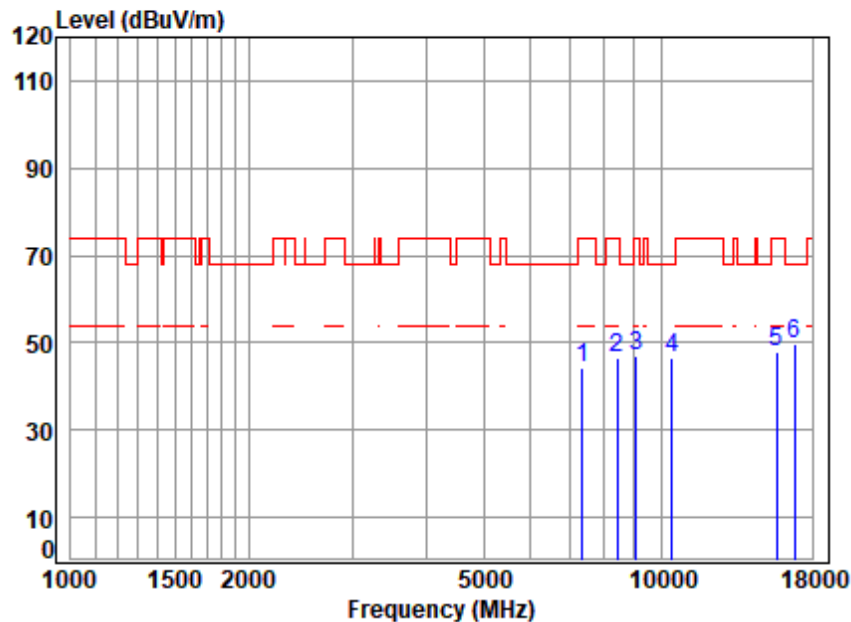
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5220 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7360.057	11.50	36.78	56.41	52.36	44.23	74.00 -29.77 peak
2	8436.402	11.88	38.45	55.51	51.86	46.68	74.00 -27.32 peak
3	9069.112	12.13	38.60	54.94	51.43	47.22	74.00 -26.78 peak
4	10440.000	13.63	39.04	53.84	47.67	46.50	68.20 -21.70 peak
5	15660.000	17.23	38.56	54.10	46.03	47.72	74.00 -26.28 peak
6	pp16795.470	17.47	39.59	54.24	46.94	49.76	68.20 -18.44 peak



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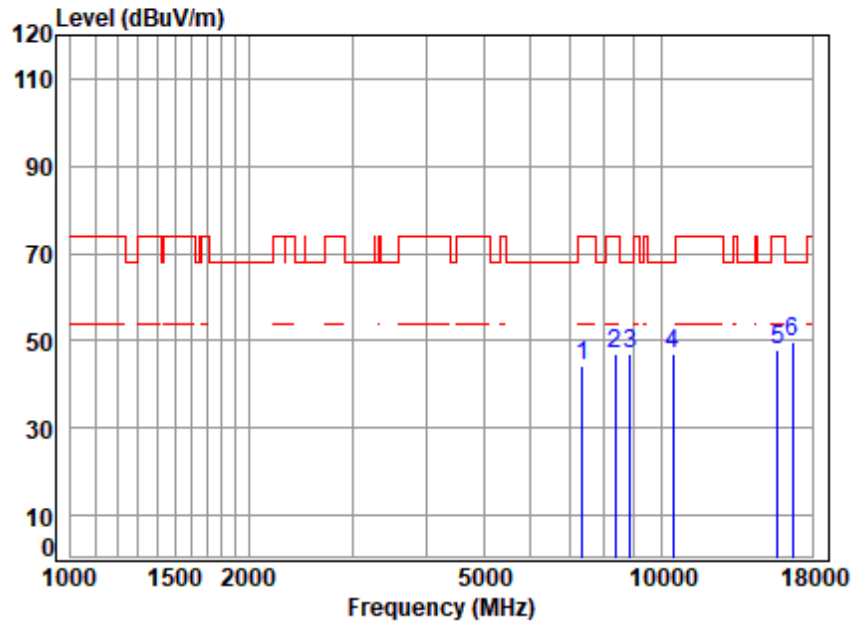
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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	52.33	44.20	74.00	-29.80 peak
2	8342.406	11.70	38.58	55.59	52.31	47.00	74.00	-27.00 peak
3	8841.090	12.24	38.50	55.14	51.41	47.01	68.20	-21.19 peak
4	10480.000	13.64	39.08	53.81	48.24	47.15	68.20	-21.05 peak
5	15720.000	17.22	38.58	54.08	46.05	47.77	74.00	-26.23 peak
6	pp16659.160	17.61	39.32	54.20	47.10	49.83	68.20	-18.37 peak



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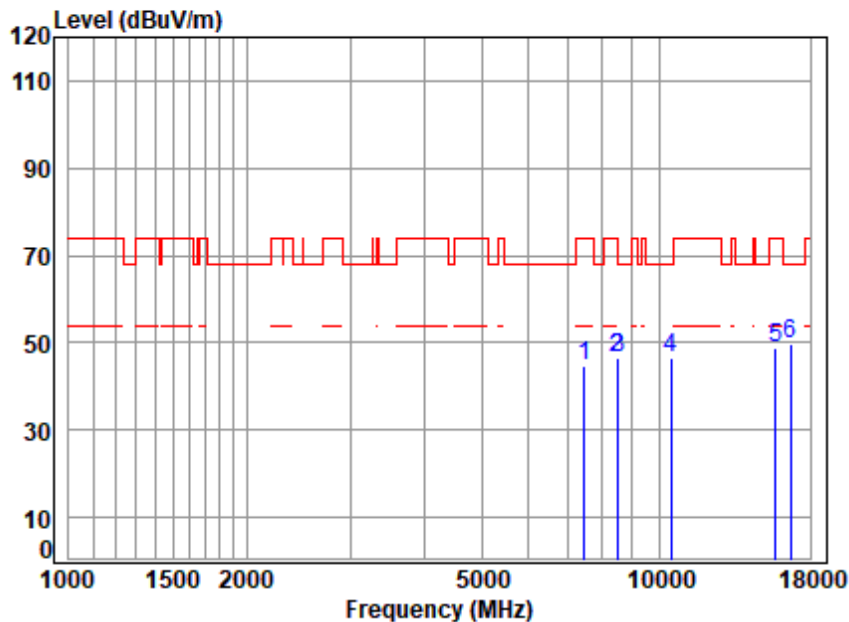
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5240 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7465.763	11.32	36.80	56.33	53.02	44.81	74.00 -29.19 peak
2	8479.478	12.17	38.34	55.47	51.36	46.40	74.00 -27.60 peak
3	8505.428	12.29	38.30	55.45	51.63	46.77	68.20 -21.43 peak
4	10480.000	13.64	39.08	53.81	47.77	46.68	68.20 -21.52 peak
5	15720.000	17.22	38.58	54.08	47.31	49.03	74.00 -24.97 peak
6	pp16693.140	17.59	39.39	54.21	46.79	49.56	68.20 -18.64 peak



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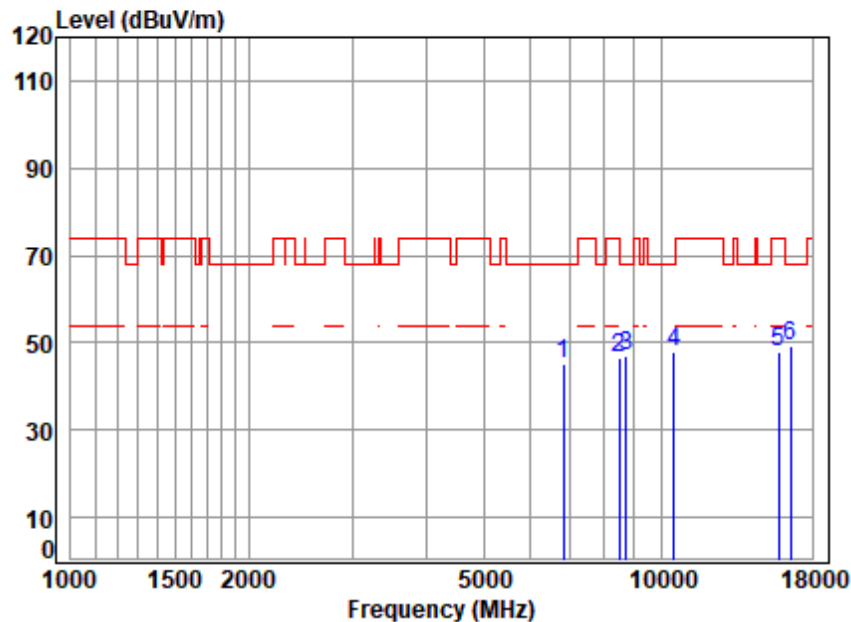
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6832.646	11.37	35.97	56.73	54.61	45.22	68.20	-22.98 peak
2	8496.769	12.29	38.31	55.45	51.38	46.53	74.00	-27.47 peak
3	8733.685	12.14	38.53	55.24	51.72	47.15	68.20	-21.05 peak
4	10520.000	13.63	39.14	53.79	48.78	47.76	68.20	-20.44 peak
5	15780.000	17.08	38.52	54.07	46.36	47.89	74.00	-26.11 peak
6	pp16574.540	17.67	39.12	54.17	46.77	49.39	68.20	-18.81 peak

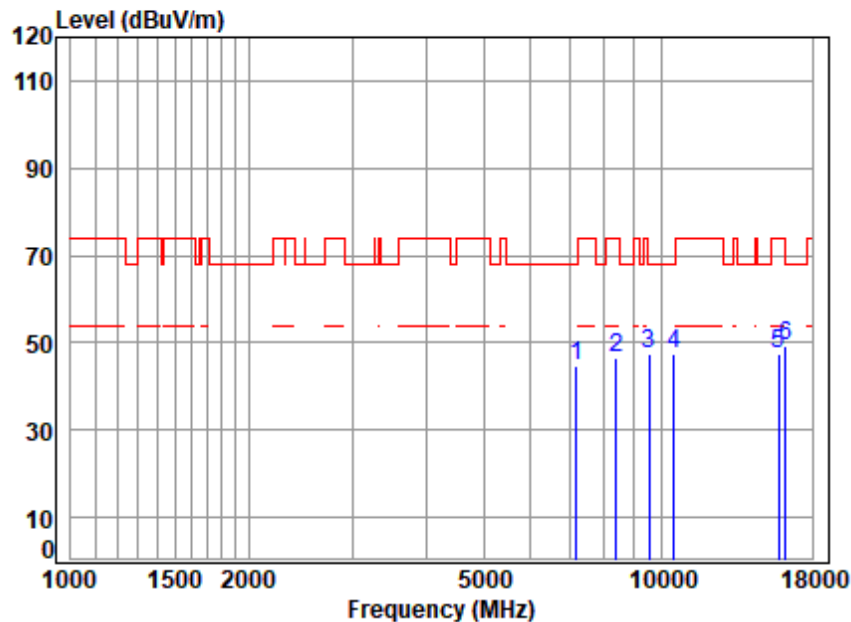


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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7175.005	11.64	36.55	56.56	53.22	44.85	68.20	-23.35 peak
2	8385.002	11.65	38.63	55.55	51.96	46.69	74.00	-27.31 peak
3	9533.237	12.52	38.83	54.52	50.40	47.23	68.20	-20.97 peak
4	10520.000	13.63	39.14	53.79	48.38	47.36	68.20	-20.84 peak
5	15780.000	17.08	38.52	54.07	46.09	47.62	74.00	-26.38 peak
6	pp16256.860	17.21	38.56	54.08	47.68	49.37	68.20	-18.83 peak



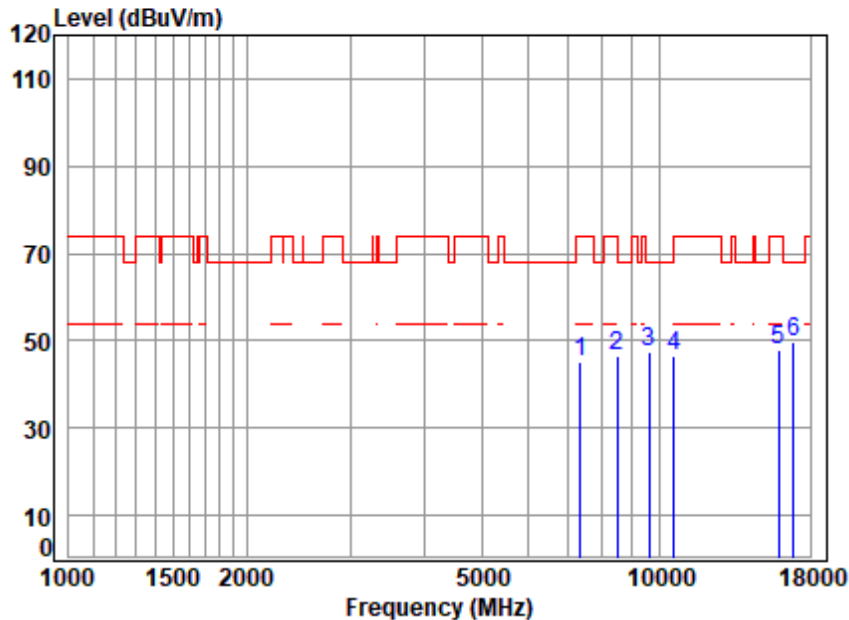
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11A

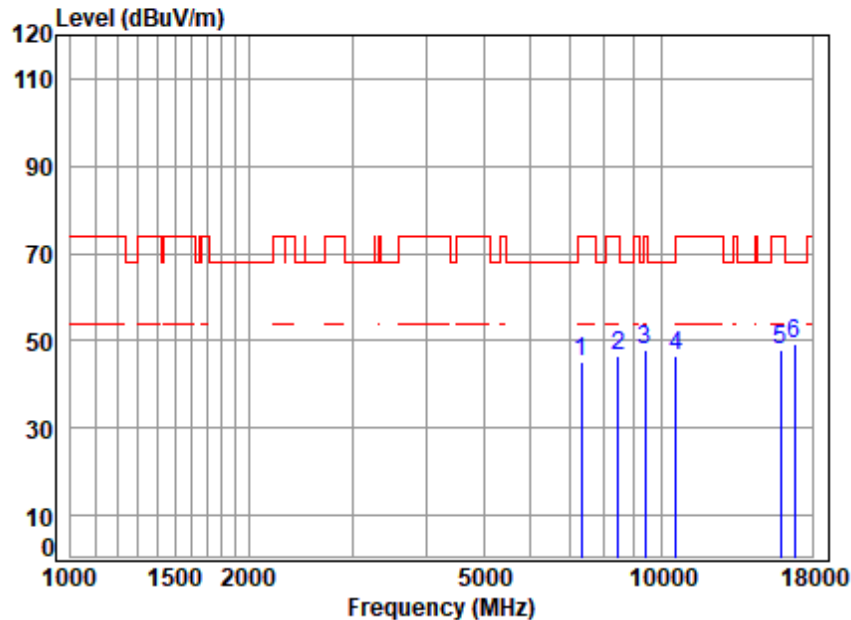
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	53.12	45.00	74.00	-29.00 peak
2	8488.119	12.23	38.32	55.46	51.61	46.70	74.00	-27.30 peak
3	9611.236	12.46	38.78	54.45	50.71	47.50	68.20	-20.70 peak
4	10600.000	13.59	39.30	53.74	47.31	46.46	68.20	-21.74 peak
5	15900.000	17.28	38.70	54.03	45.84	47.79	74.00	-26.21 peak
6	pp16864.040	17.92	39.60	54.26	46.37	49.63	68.20	-18.57 peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	53.53	45.36	74.00	-28.64 peak
2	8462.222	12.05	38.38	55.48	51.77	46.72	74.00	-27.28 peak
3	9388.690	12.29	38.80	54.65	51.38	47.82	74.00	-26.18 peak
4	10600.000	13.59	39.30	53.74	47.60	46.75	68.20	-21.45 peak
5	15900.000	17.28	38.70	54.03	46.12	48.07	74.00	-25.93 peak
6	pp16829.720	17.67	39.60	54.25	46.44	49.46	68.20	-18.74 peak



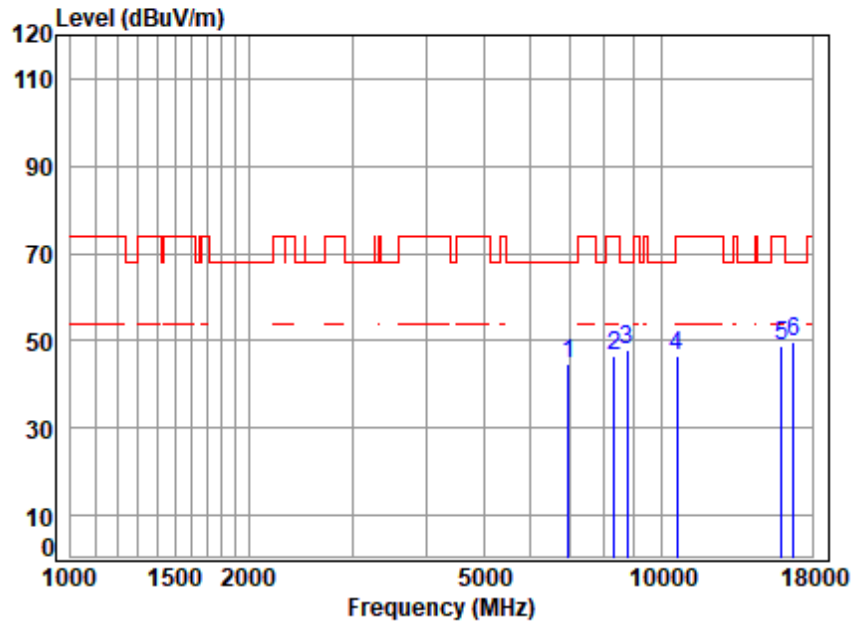
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Test Mode: 10; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6966.166	11.37	36.13	56.71	53.97	44.76	68.20 -23.44 peak
2	8333.913	11.72	38.44	55.60	51.78	46.34	74.00 -27.66 peak
3	8769.341	12.20	38.50	55.21	52.34	47.83	68.20 -20.37 peak
4	10640.000	13.77	39.34	53.72	47.13	46.52	74.00 -27.48 peak
5	15960.000	17.20	38.64	54.01	47.02	48.85	74.00 -25.15 peak
6	pp16744.220	17.53	39.49	54.22	47.05	49.85	68.20 -18.35 peak



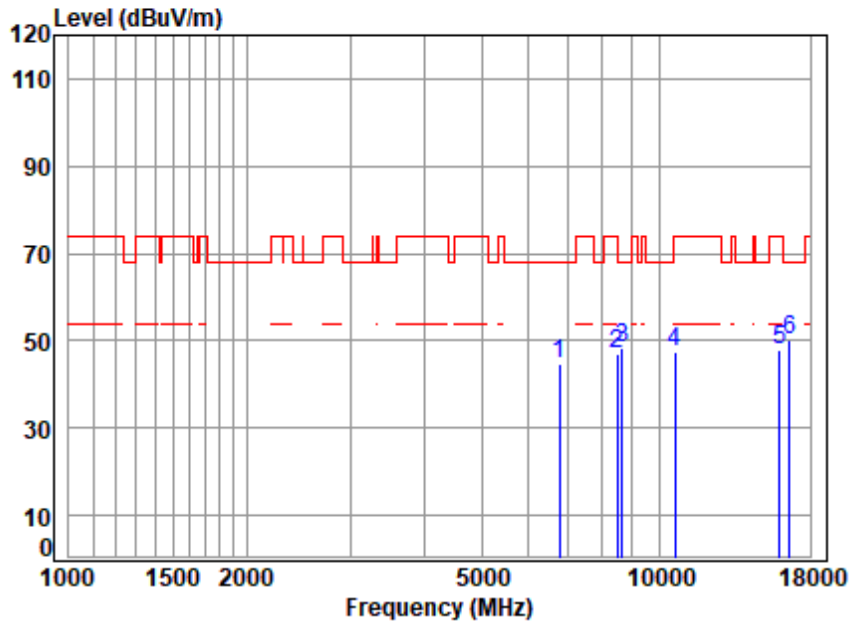
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6770.297	11.38	35.78	56.75	54.50	44.91	68.20	-23.29 peak
2	8488.119	12.23	38.32	55.46	51.72	46.81	74.00	-27.19 peak
3	8662.807	12.04	38.45	55.30	53.05	48.24	68.20	-19.96 peak
4	10640.000	13.77	39.34	53.72	48.03	47.42	74.00	-26.58 peak
5	15960.000	17.20	38.64	54.01	46.28	48.11	74.00	-25.89 peak
6	pp16642.210	17.62	39.28	54.19	47.50	50.21	68.20	-17.99 peak



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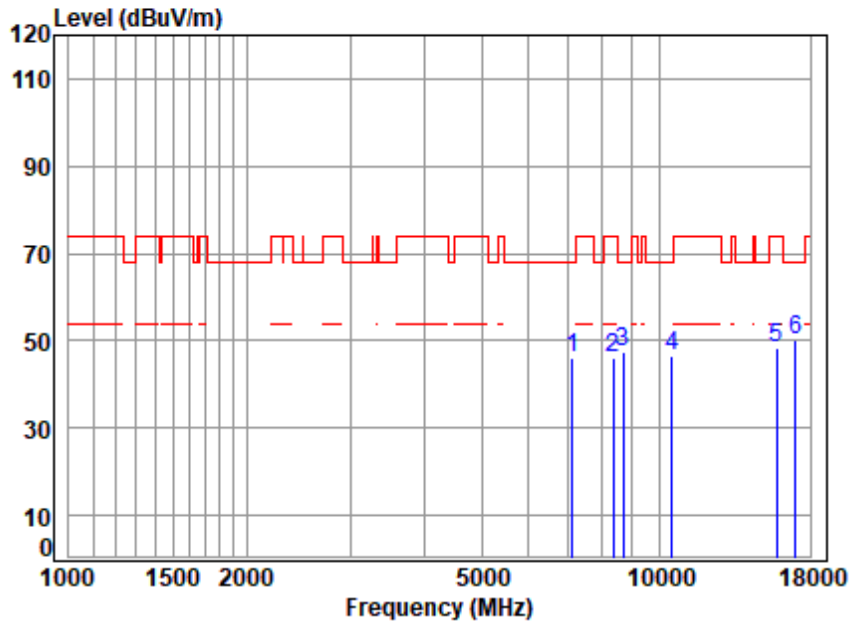
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7131.289	11.84	36.46	56.59	54.33	46.04	68.20	-22.16 peak
2	8342.406	11.70	38.58	55.59	51.48	46.17	74.00	-27.83 peak
3	8689.318	12.08	38.56	55.28	51.91	47.27	68.20	-20.93 peak
4	10520.000	13.63	39.14	53.79	47.74	46.72	68.20	-21.48 peak
5	15780.000	17.08	38.52	54.07	46.61	48.14	74.00	-25.86 peak
6	pp17002.020	18.08	39.70	54.30	46.88	50.36	68.20	-17.84 peak



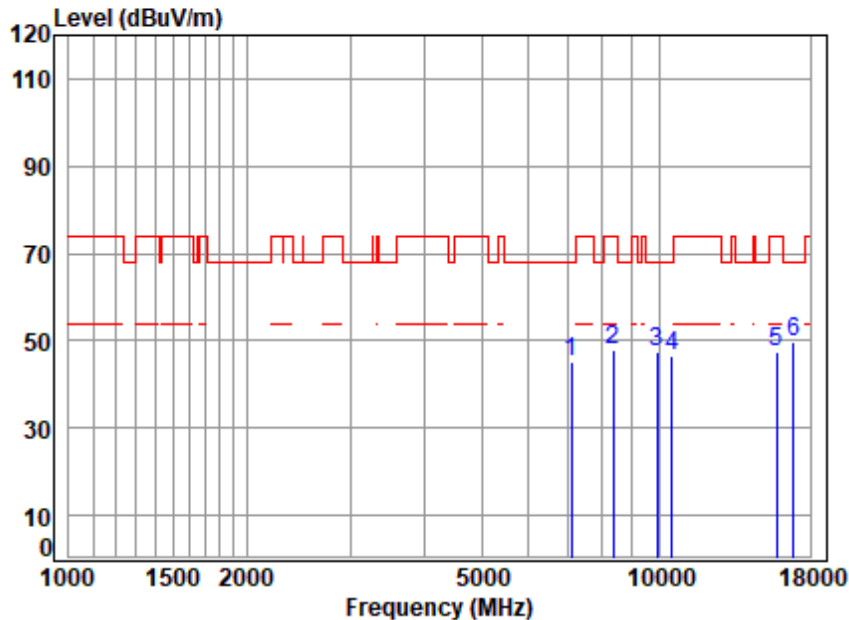
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7109.531	11.95	36.42	56.61	53.23	44.99	68.20 -23.21 peak
2	8350.908	11.69	38.70	55.58	53.06	47.87	74.00 -26.13 peak
3	9899.373	12.80	38.89	54.19	49.80	47.30	68.20 -20.90 peak
4	10520.000	13.63	39.14	53.79	47.51	46.49	68.20 -21.71 peak
5	15780.000	17.08	38.52	54.07	46.12	47.65	74.00 -26.35 peak
6	pp16846.870	17.80	39.60	54.25	46.77	49.92	68.20 -18.28 peak



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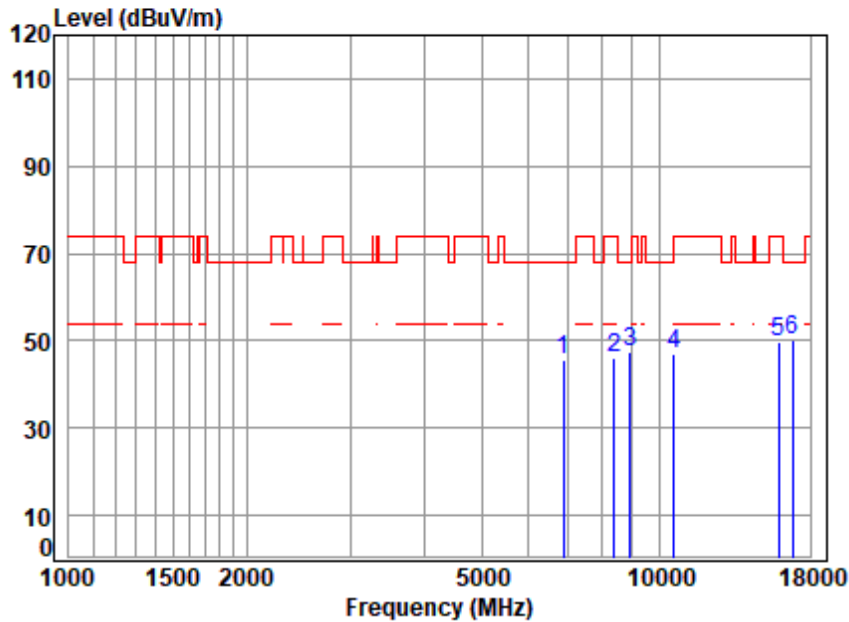
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6881.537	11.37	36.13	56.72	54.73	45.51	68.20 -22.69 peak
2	8393.547	11.64	38.61	55.55	51.36	46.06	74.00 -27.94 peak
3	8913.427	12.21	38.57	55.08	51.95	47.65	68.20 -20.55 peak
4	10600.000	13.59	39.30	53.74	47.89	47.04	68.20 -21.16 peak
5	15900.000	17.28	38.70	54.03	47.63	49.58	74.00 -24.42 peak
6	pp16829.720	17.67	39.60	54.25	47.19	50.21	68.20 -17.99 peak



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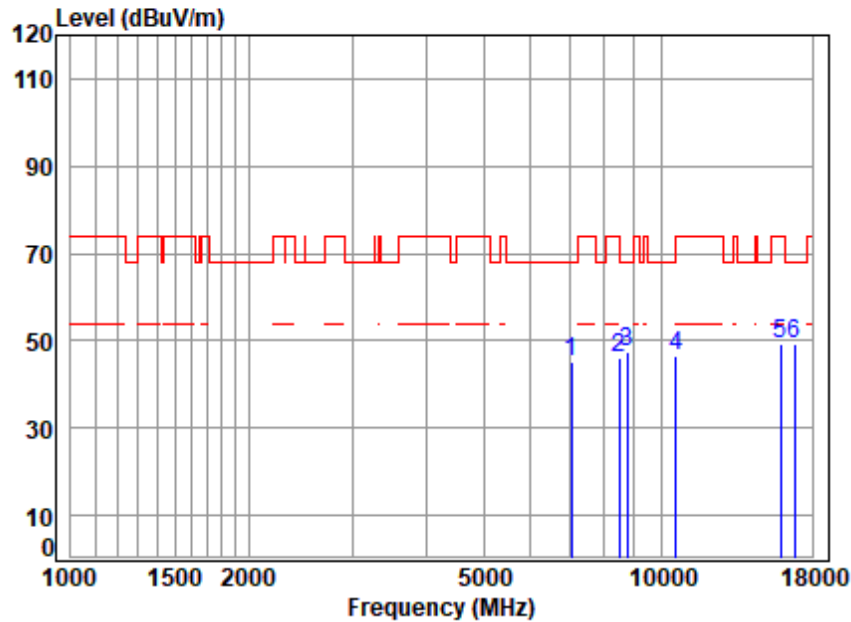
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7051.834	11.69	36.30	56.66	53.93	45.26	68.20 -22.94 peak
2	8496.769	12.29	38.31	55.45	50.94	46.09	74.00 -27.91 peak
3	8769.341	12.20	38.50	55.21	52.03	47.52	68.20 -20.68 peak
4	10600.000	13.59	39.30	53.74	47.51	46.66	68.20 -21.54 peak
5	15900.000	17.28	38.70	54.03	47.29	49.24	74.00 -24.76 peak
6	pp16795.470	17.47	39.59	54.24	46.48	49.30	68.20 -18.90 peak



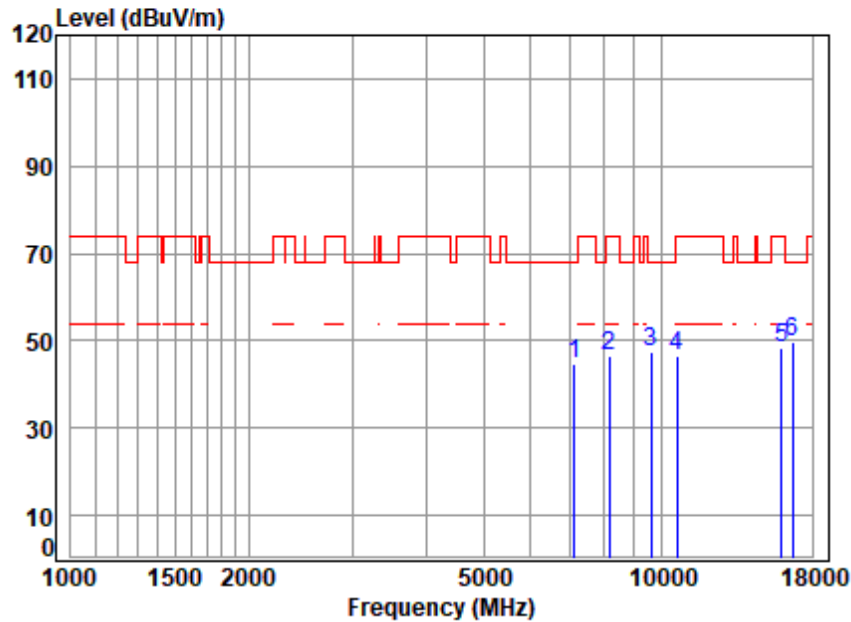
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7116.776	11.91	36.43	56.61	53.15	44.88	68.20	-23.32 peak
2	8157.544	11.52	37.92	55.76	52.72	46.40	74.00	-27.60 peak
3	9621.031	12.49	38.76	54.44	50.65	47.46	68.20	-20.74 peak
4	10630.970	13.73	39.33	53.72	47.31	46.65	74.00	-27.35 Peak
5	15960.000	17.20	38.64	54.01	46.47	48.30	74.00	-25.70 peak
6	pp16693.140	17.59	39.39	54.21	46.93	49.70	68.20	-18.50 peak



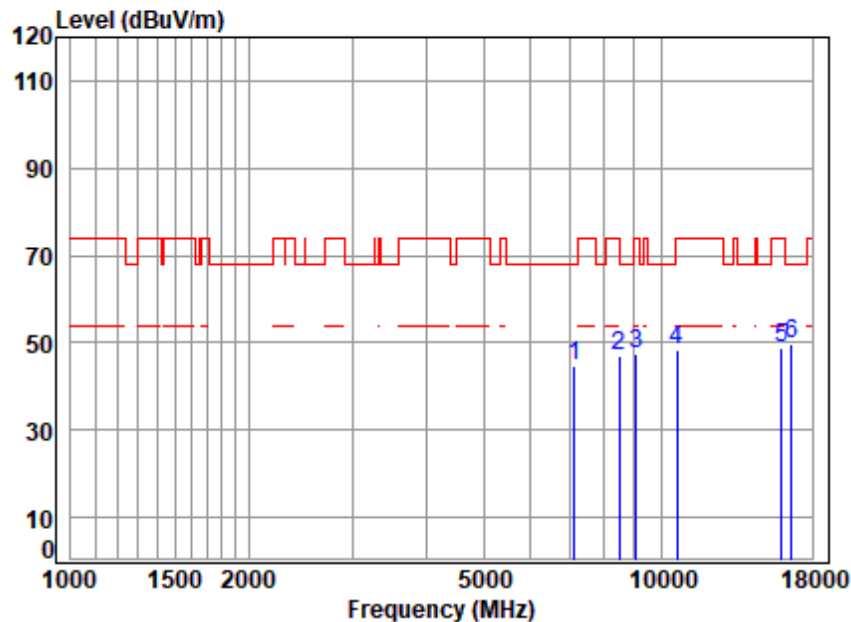
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	53.10	44.83	68.20	-23.37	peak
2	8488.119	12.23	38.32	55.46	52.12	47.21	74.00	-26.79	peak
3	9069.112	12.13	38.60	54.94	51.77	47.56	74.00	-26.44	peak
4	10640.000	13.77	39.34	53.72	48.84	48.23	74.00	-25.77	peak
5	15960.000	17.20	38.64	54.01	46.94	48.77	74.00	-25.23	peak
6	pp16591.430	17.66	39.17	54.18	47.10	49.75	68.20	-18.45	peak



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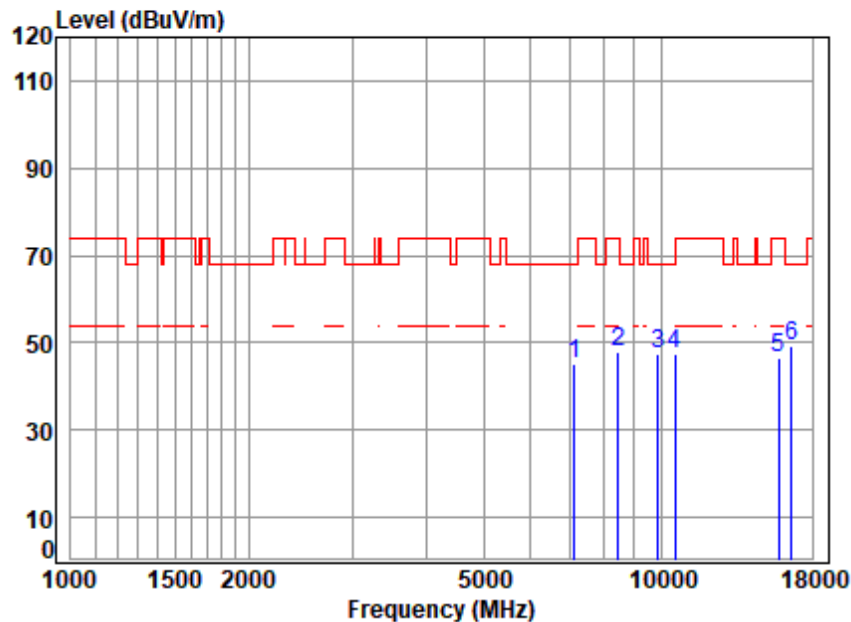
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5270 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7124.029	11.88	36.45	56.60	53.24	44.97	68.20 -23.23 peak
2	8453.606	11.99	38.39	55.49	52.82	47.71	74.00 -26.29 peak
3	9879.227	12.86	38.44	54.21	50.57	47.66	68.20 -20.54 peak
4	10540.000	13.62	39.18	53.78	48.46	47.48	68.20 -20.72 peak
5	15810.000	17.06	38.52	54.06	45.02	46.54	74.00 -27.46 peak
6	pp16608.340	17.64	39.22	54.18	46.73	49.41	68.20 -18.79 peak



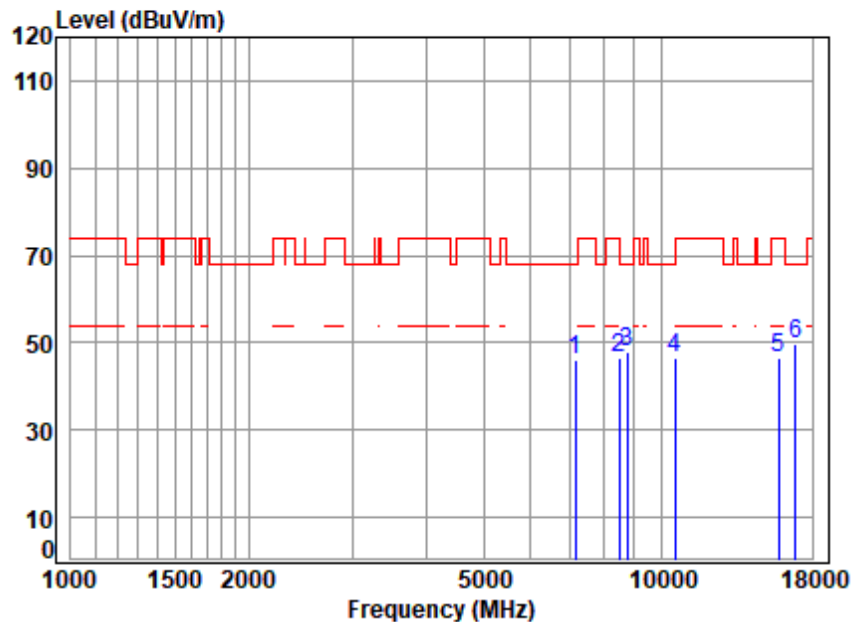
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5270 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7145.831	11.77	36.49	56.58	54.26	45.94	68.20	-22.26 peak
2	8470.845	12.11	38.36	55.48	51.42	46.41	74.00	-27.59 peak
3	8769.341	12.20	38.50	55.21	52.21	47.70	68.20	-20.50 peak
4	10540.000	13.62	39.18	53.78	47.63	46.65	68.20	-21.55 peak
5	15810.000	17.06	38.52	54.06	45.20	46.72	74.00	-27.28 peak
6	pp16846.870	17.80	39.60	54.25	46.55	49.70	68.20	-18.50 peak



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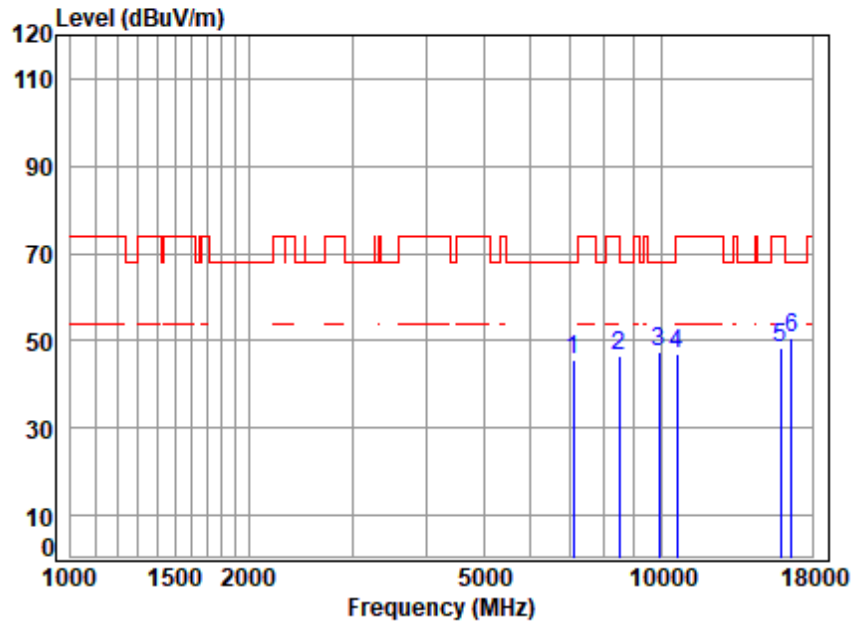
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5310 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7095.063	11.96	36.39	56.62	53.78	45.51	68.20 -22.69 peak
2	8488.119	12.23	38.32	55.46	51.29	46.38	74.00 -27.62 peak
3	9929.669	12.86	38.90	54.16	49.99	47.59	68.20 -20.61 peak
4	10620.000	13.68	39.32	53.73	47.58	46.85	74.00 -27.15 peak
5	15930.000	17.24	38.67	54.02	46.41	48.30	74.00 -25.70 peak
6	pp16625.260	17.63	39.25	54.19	47.88	50.57	68.20 -17.63 peak



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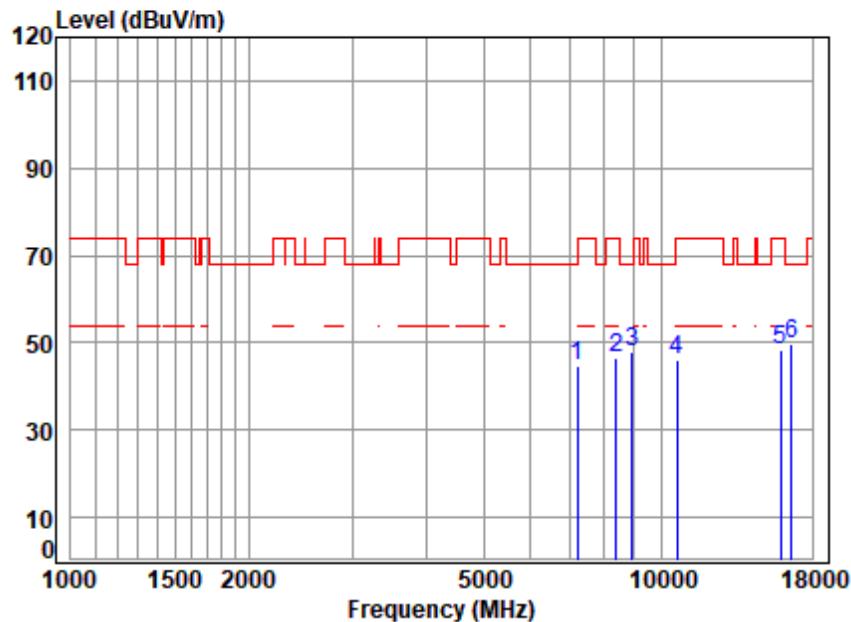
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5310 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7218.988	11.52	36.60	56.52	52.95	44.55	68.20	-23.65 peak
2	8393.547	11.64	38.61	55.55	52.02	46.72	74.00	-27.28 peak
3	8922.510	12.20	38.55	55.07	52.06	47.74	68.20	-20.46 peak
4	10620.000	13.68	39.32	53.73	47.02	46.29	74.00	-27.71 peak
5	15930.000	17.24	38.67	54.02	46.29	48.18	74.00	-25.82 peak
6	pp16591.430	17.66	39.17	54.18	47.17	49.82	68.20	-18.38 peak



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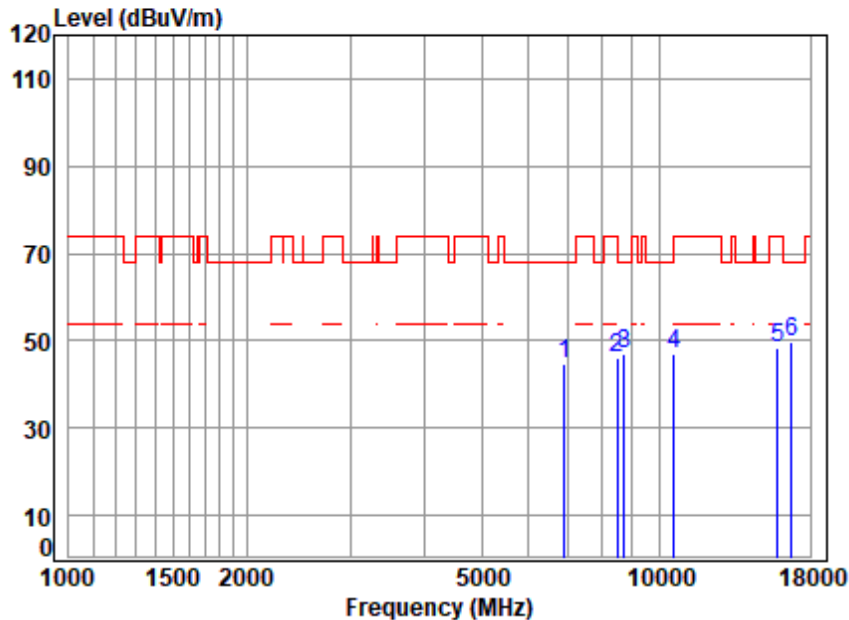
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5290 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6916.673	11.37	36.17	56.72	54.11	44.93	68.20	-23.27 peak
2	8488.119	12.23	38.32	55.46	51.22	46.31	74.00	-27.69 peak
3	8715.911	12.12	38.57	55.26	51.78	47.21	68.20	-20.99 peak
4	10580.000	13.60	39.26	53.75	48.09	47.20	68.20	-21.00 peak
5	15870.000	17.20	38.64	54.04	46.69	48.49	74.00	-25.51 peak
6	pp16744.220	17.53	39.49	54.22	47.00	49.80	68.20	-18.40 peak



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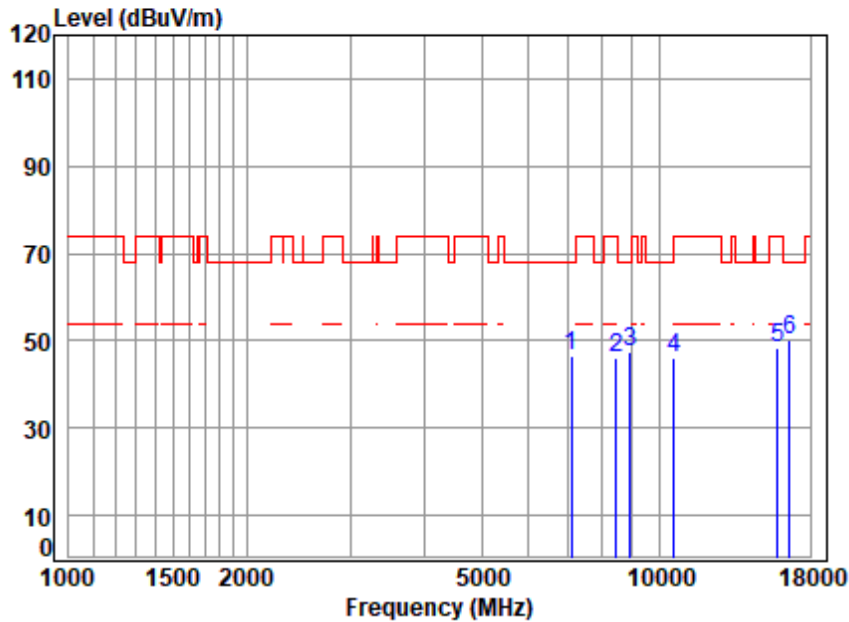
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5290 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7095.063	11.96	36.39	56.62	54.65	46.38	68.20	-21.82 peak
2	8445.000	11.94	38.42	55.50	51.11	45.97	74.00	-28.03 peak
3	8922.510	12.20	38.55	55.07	51.61	47.29	68.20	-20.91 peak
4	10580.000	13.60	39.26	53.75	46.91	46.02	68.20	-22.18 peak
5	15870.000	17.20	38.64	54.04	46.65	48.45	74.00	-25.55 peak
6	pp16608.340	17.64	39.22	54.18	47.29	49.97	68.20	-18.23 peak



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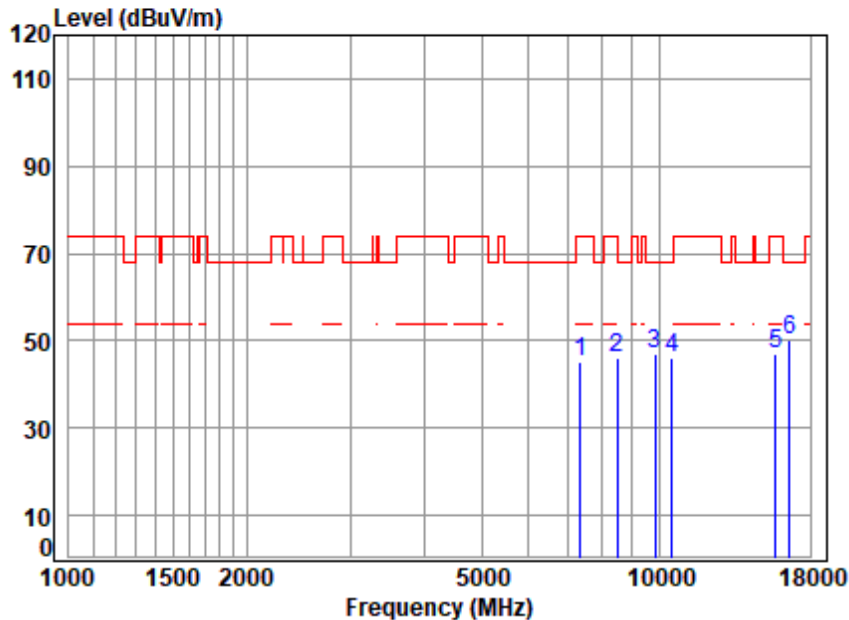
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5250 TX RSE

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.21	45.07	74.00	-28.93 peak
2	8496.769	12.29	38.31	55.45	50.79	45.94	74.00	-28.06 peak
3	9829.042	13.01	38.14	54.25	50.28	47.18	68.20	-21.02 peak
4	10500.000	13.64	39.10	53.80	47.24	46.18	68.20	-22.02 peak
5	15750.000	17.15	38.55	54.08	45.50	47.12	74.00	-26.88 peak
6	pp16591.430	17.66	39.17	54.18	47.62	50.27	68.20	-17.93 peak



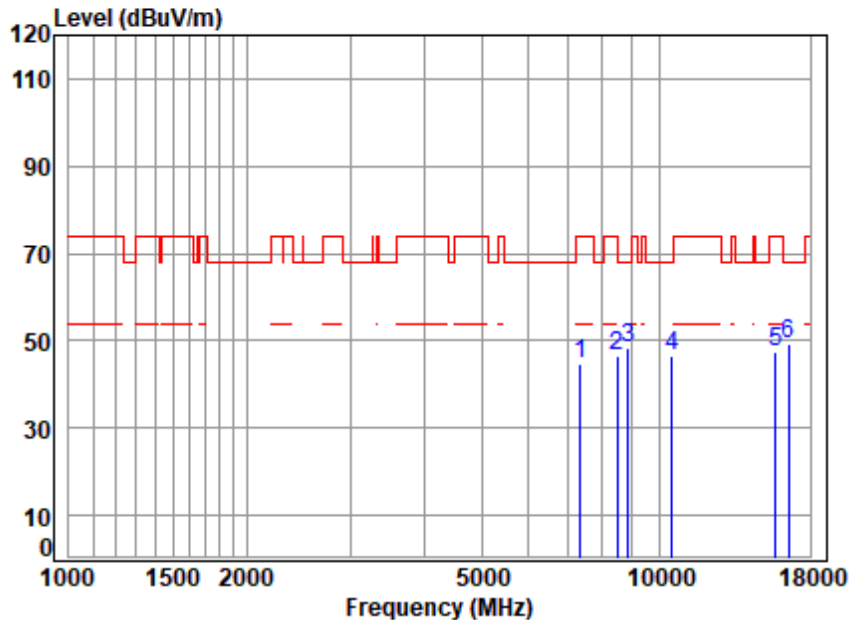
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5250 TX RSE

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	52.93	44.80	74.00	-29.20 peak
2	8479.478	12.17	38.34	55.47	51.64	46.68	74.00	-27.32 peak
3	8868.147	12.23	38.54	55.12	52.55	48.20	68.20	-20.00 peak
4	10500.000	13.64	39.10	53.80	47.67	46.61	68.20	-21.59 peak
5	15750.000	17.15	38.55	54.08	45.63	47.25	74.00	-26.75 peak
6	pp16540.810	17.70	39.02	54.16	46.78	49.34	68.20	-18.86 peak



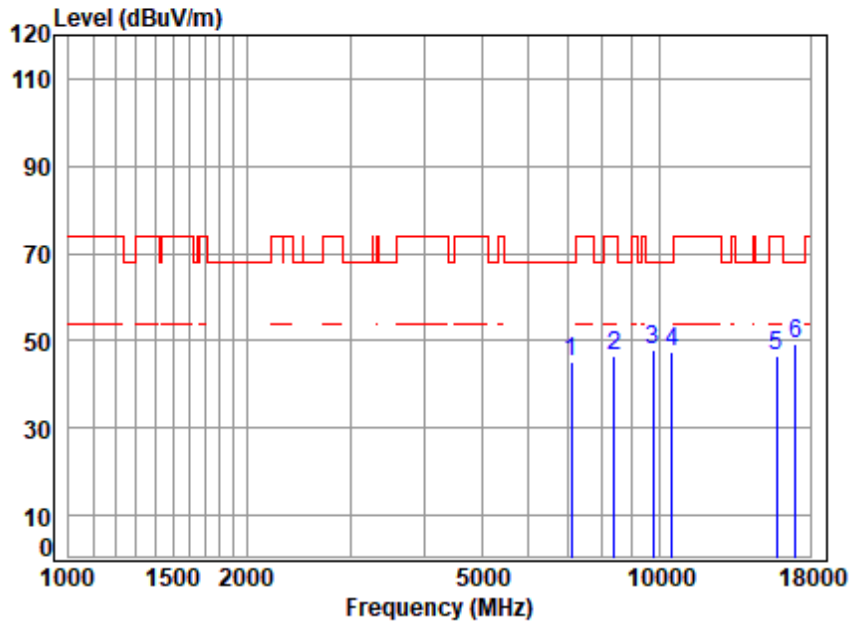
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.41	45.17	68.20	-23.03 peak
2	8402.101	11.64	38.59	55.54	51.95	46.64	74.00	-27.36 peak
3	9769.155	12.97	38.60	54.31	50.76	48.02	68.20	-20.18 peak
4	10520.000	13.63	39.14	53.79	48.61	47.59	68.20	-20.61 peak
5	15780.000	17.08	38.52	54.07	45.15	46.68	74.00	-27.32 peak
6	pp16984.710	18.09	39.68	54.30	46.00	49.47	68.20	-18.73 peak



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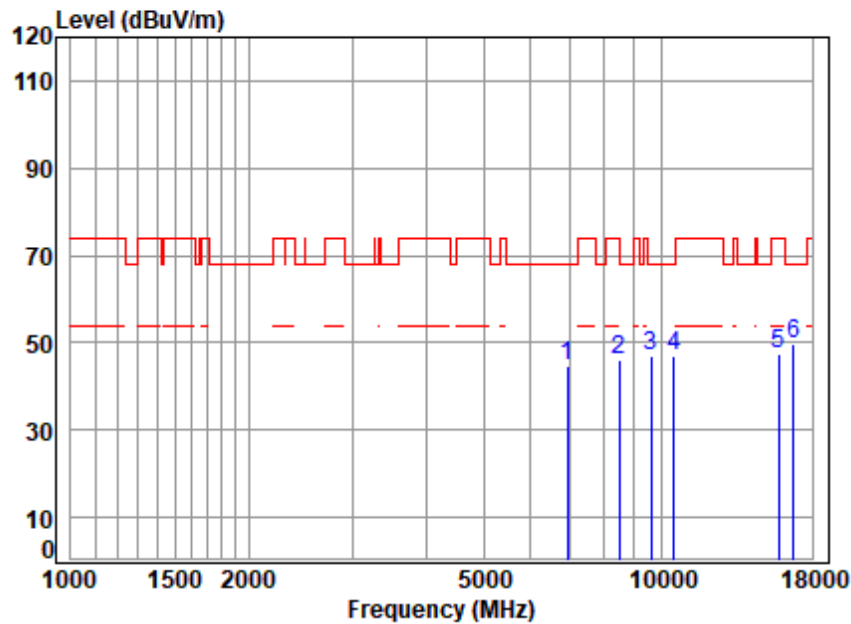
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 85 of 470

Test Mode: 10; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5260 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6930.778	11.37	36.14	56.71	54.11	44.91	68.20	-23.29 peak
2	8496.769	12.29	38.31	55.45	51.05	46.20	74.00	-27.80 peak
3	9621.031	12.49	38.76	54.44	50.33	47.14	68.20	-21.06 peak
4	10520.000	13.63	39.14	53.79	47.98	46.96	68.20	-21.24 peak
5	15780.000	17.08	38.52	54.07	45.89	47.42	74.00	-26.58 peak
6	pp16761.290	17.51	39.52	54.23	46.96	49.76	68.20	-18.44 peak



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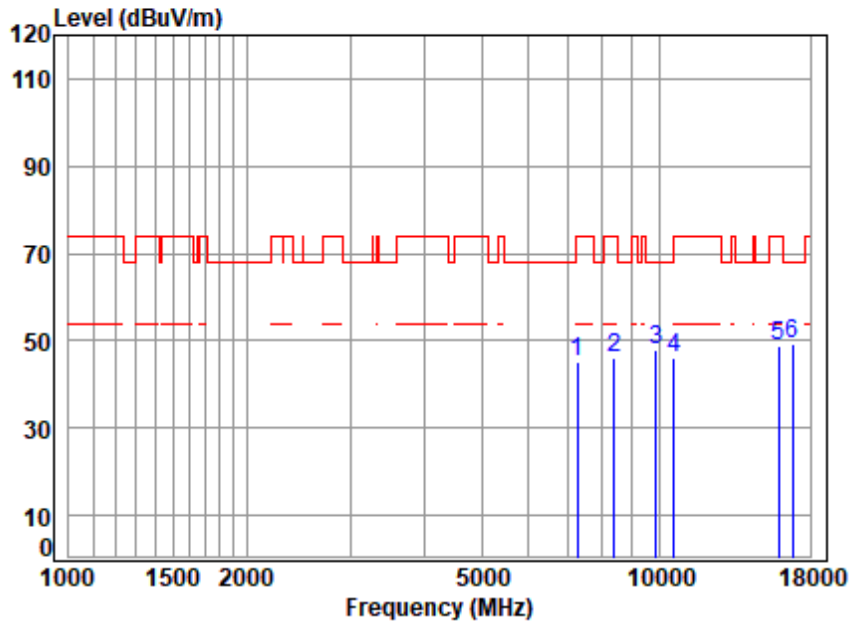
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7278.053	11.51	36.66	56.48	53.48	45.17	74.00	-28.83 peak
2	8393.547	11.64	38.61	55.55	51.61	46.31	74.00	-27.69 peak
3	9889.295	12.83	38.66	54.20	50.53	47.82	68.20	-20.38 peak
4	10600.000	13.59	39.30	53.74	47.11	46.26	68.20	-21.94 peak
5	15900.000	17.28	38.70	54.03	47.06	49.01	74.00	-24.99 peak
6	pp16778.370	17.49	39.56	54.23	46.36	49.18	68.20	-19.02 peak



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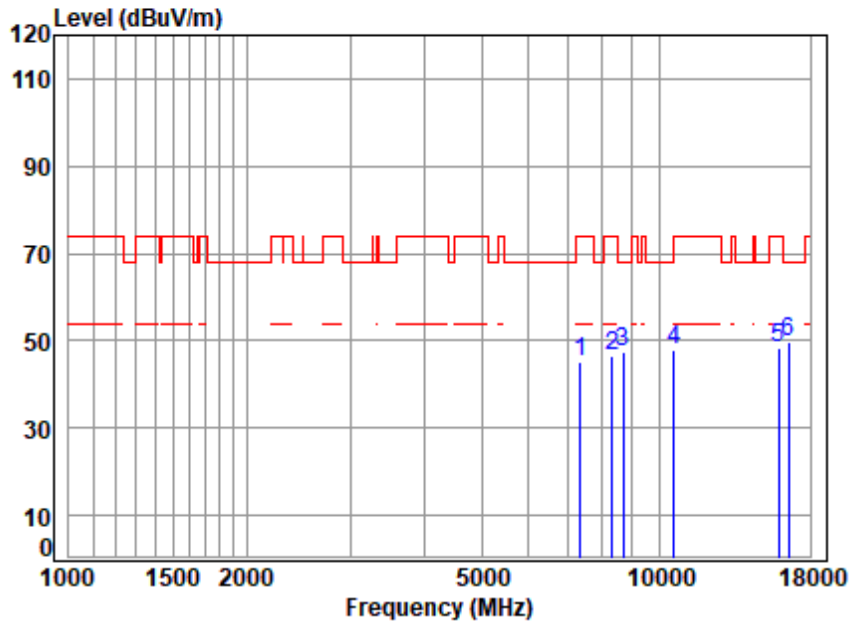
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5300 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	53.18	45.06	74.00	-28.94 peak
2	8308.486	11.75	38.04	55.62	52.42	46.59	74.00	-27.41 peak
3	8671.635	12.05	38.49	55.30	52.38	47.62	68.20	-20.58 peak
4	10600.000	13.59	39.30	53.74	48.86	48.01	68.20	-20.19 peak
5	15900.000	17.28	38.70	54.03	46.57	48.52	74.00	-25.48 peak
6	pp16574.540	17.67	39.12	54.17	47.10	49.72	68.20	-18.48 peak



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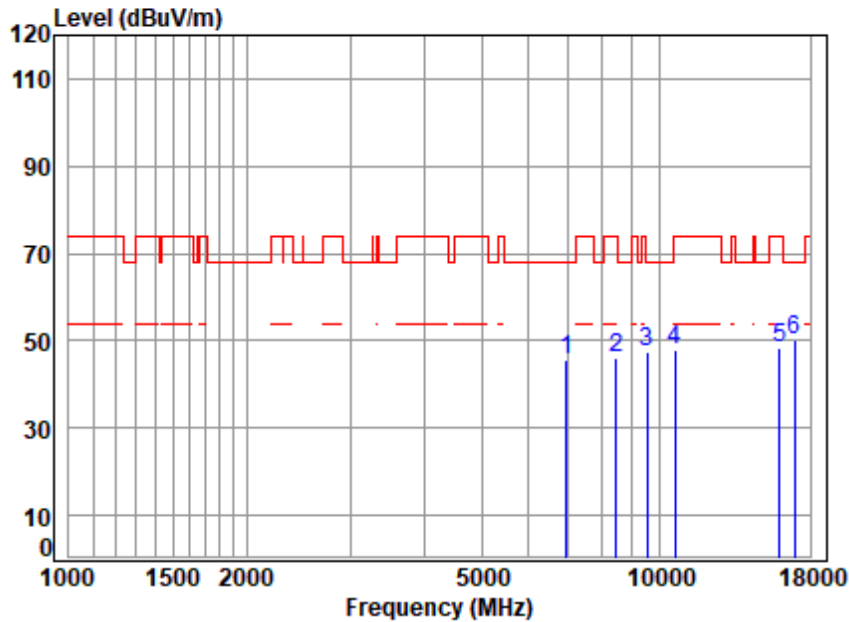
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Report No.: SZCR240300076704

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6966.166	11.37	36.13	56.71	55.00	45.79	68.20	-22.41 peak
2	8445.000	11.94	38.42	55.50	51.23	46.09	74.00	-27.91 peak
3	9542.952	12.50	38.81	54.51	50.86	47.66	68.20	-20.54 peak
4	10640.000	13.77	39.34	53.72	48.31	47.70	74.00	-26.30 peak
5	15960.000	17.20	38.64	54.01	46.75	48.58	74.00	-25.42 peak
6	pp16932.880	18.14	39.63	54.28	46.49	49.98	68.20	-18.22 peak



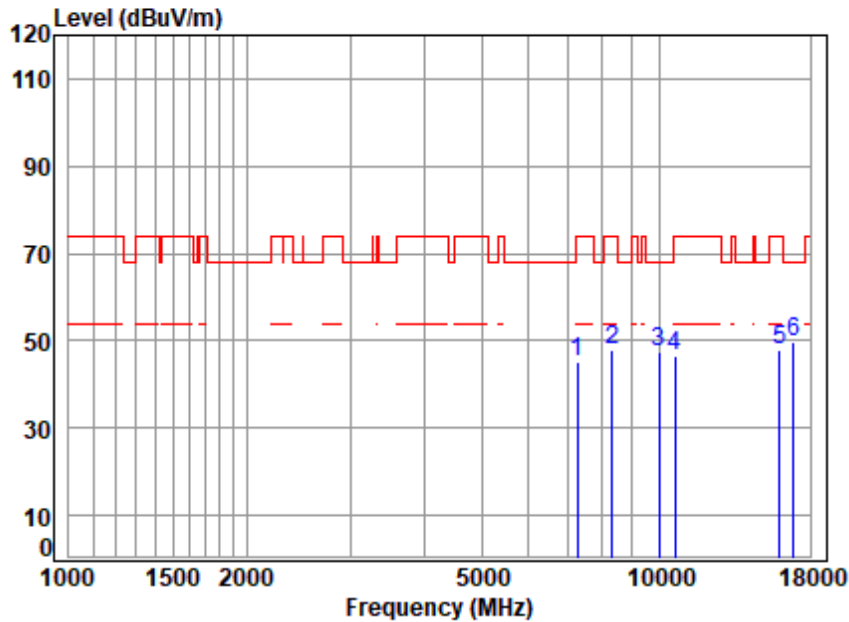
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7263.242	11.51	36.63	56.49	53.38	45.03	74.00 -28.97 peak
2	8333.913	11.72	38.44	55.60	53.19	47.75	74.00 -26.25 peak
3	9990.539	12.99	38.90	54.11	49.45	47.23	68.20 -20.97 peak
4	10640.000	13.77	39.34	53.72	47.15	46.54	74.00 -27.46 peak
5	15960.000	17.20	38.64	54.01	46.10	47.93	74.00 -26.07 peak
6	pp16846.870	17.80	39.60	54.25	46.36	49.51	68.20 -18.69 peak

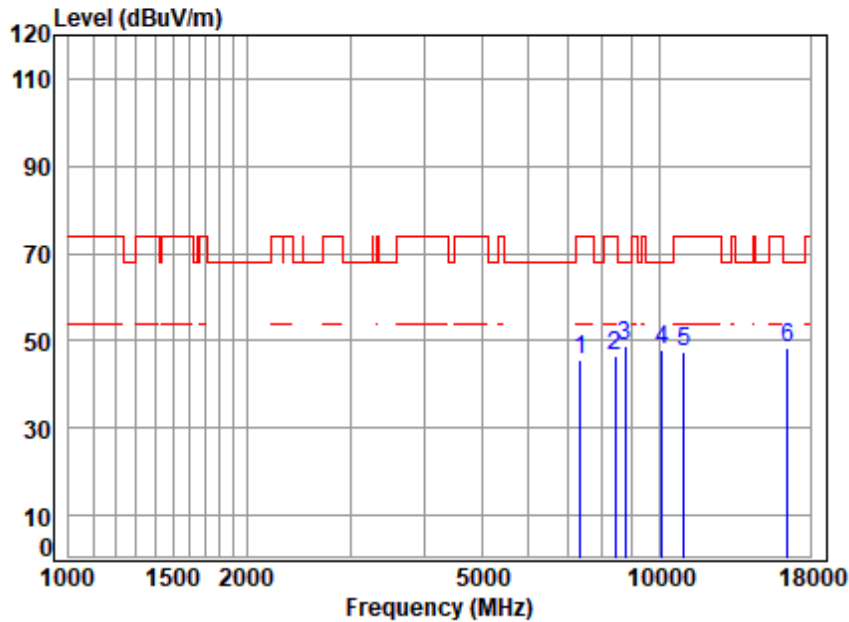


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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11A

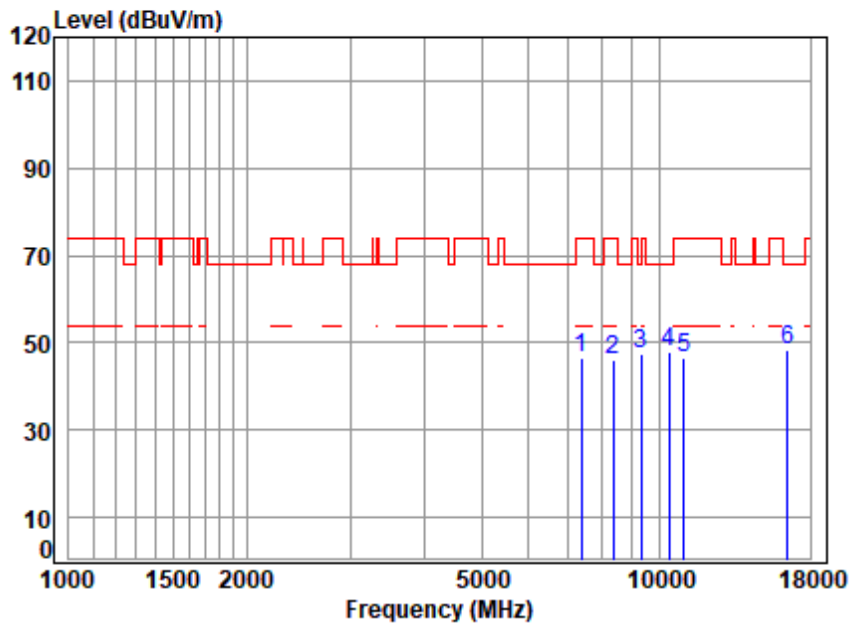
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	53.98	45.85	74.00	-28.15 peak
2	8436.402	11.88	38.45	55.51	51.59	46.41	74.00	-27.59 peak
3 pp	8769.341	12.20	38.50	55.21	53.33	48.82	68.20	-19.38 peak
4	10113.400	13.25	39.10	54.03	49.46	47.78	68.20	-20.42 peak
5	11000.000	14.17	39.40	53.50	47.61	47.68	74.00	-26.32 peak
6	16500.000	17.74	38.90	54.15	46.01	48.50	68.20	-19.70 peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11A

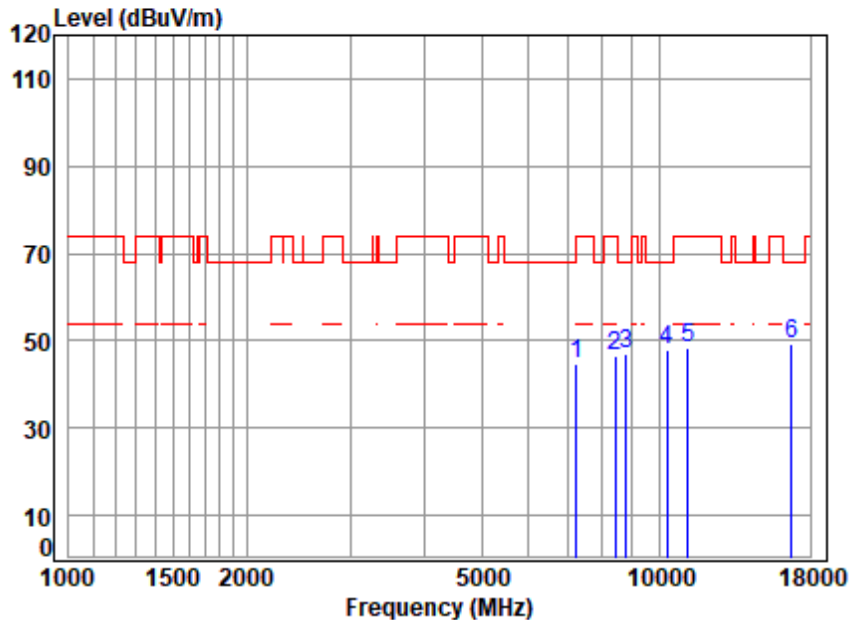
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7367.558	11.50	36.76	56.41	54.83	46.68	74.00	-27.32 peak
2	8350.908	11.69	38.70	55.58	51.20	46.01	74.00	-27.99 peak
3	9321.987	12.20	38.80	54.71	51.28	47.57	74.00	-26.43 peak
4	10384.810	13.61	39.00	53.87	49.07	47.81	68.20	-20.39 peak
5	11000.000	14.17	39.40	53.50	46.47	46.54	74.00	-27.46 peak
6	pp16500.000	17.74	38.90	54.15	45.75	48.24	68.20	-19.96 peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

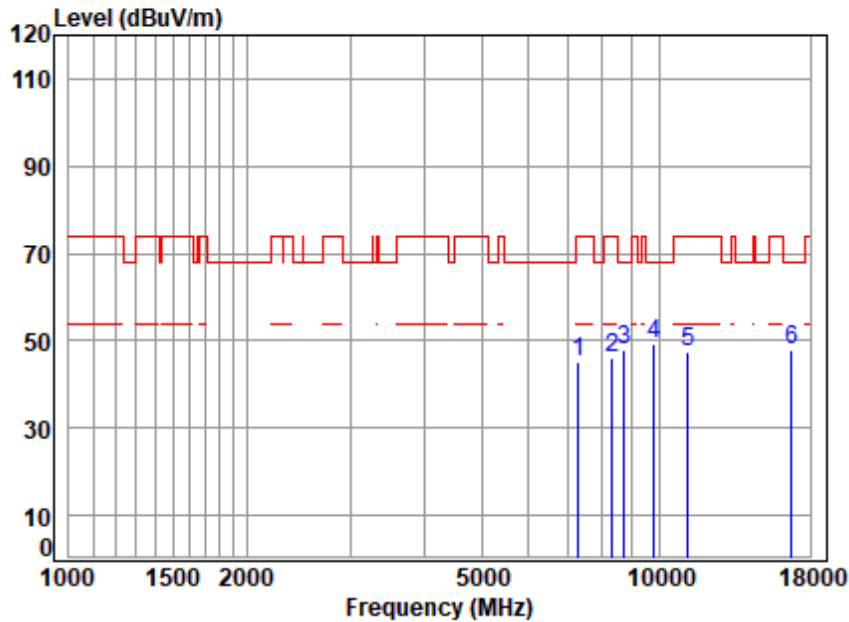
Mode : 5580 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7248.460	11.52	36.60	56.50	53.05	44.67	68.20	-23.53 peak
2	8427.813	11.82	38.49	55.51	51.77	46.57	74.00	-27.43 peak
3	8796.179	12.24	38.50	55.18	51.53	47.09	68.20	-21.11 peak
4	10321.540	13.59	39.00	53.91	49.08	47.76	68.20	-20.44 peak
5	11160.000	14.72	39.56	53.55	47.55	48.28	74.00	-25.72 peak
6	pp16740.000	17.54	39.48	54.22	46.48	49.28	68.20	-18.92 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

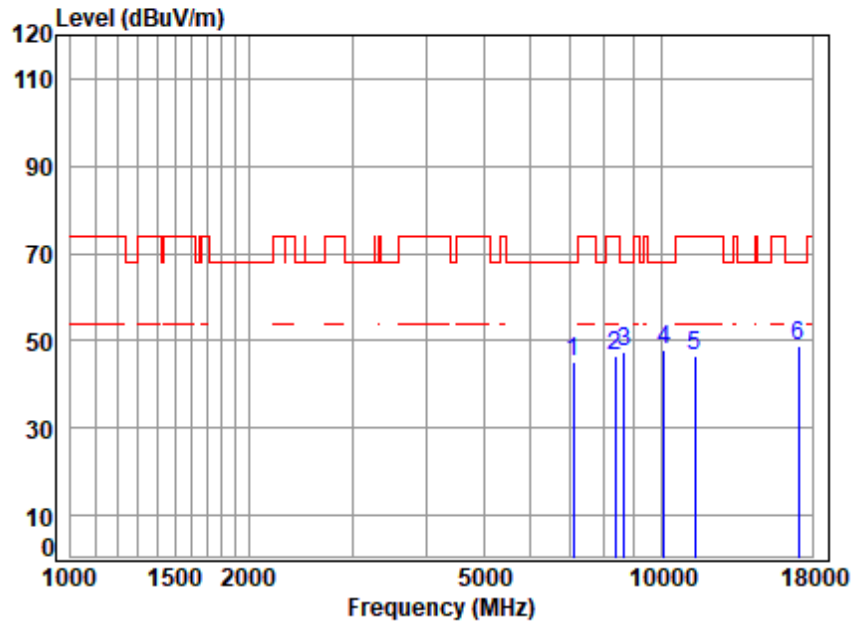
Mode : 5580 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7300.327	11.51	36.70	56.46	53.21	44.96	74.00	-29.04 peak
2	8325.429	11.73	38.31	55.61	51.64	46.07	74.00	-27.93 peak
3	8715.911	12.12	38.57	55.26	52.38	47.81	68.20	-20.39 peak
4 pp	9779.111	13.01	38.60	54.30	51.90	49.21	68.20	-18.99 peak
5	11160.000	14.72	39.56	53.55	46.90	47.63	74.00	-26.37 peak
6	16740.000	17.54	39.48	54.22	45.32	48.12	68.20	-20.08 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

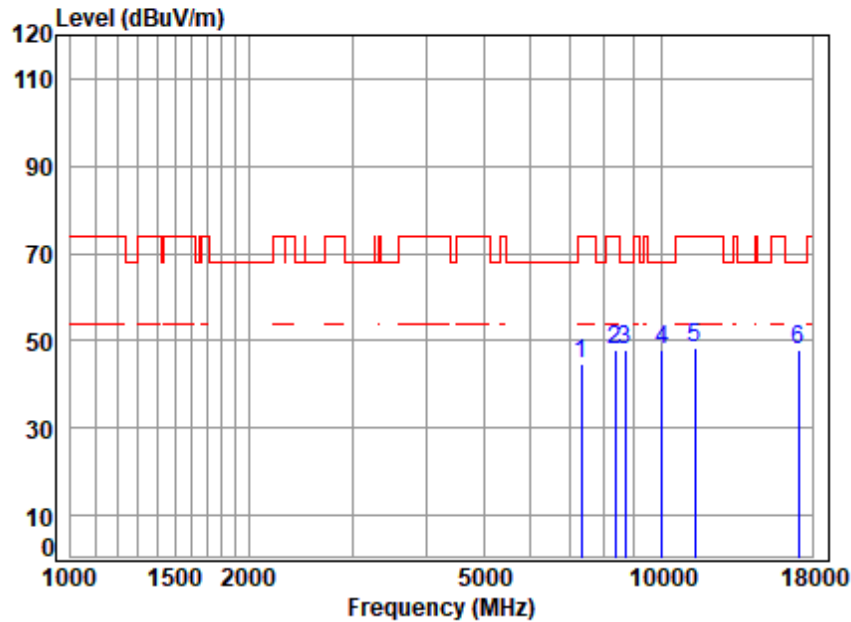
Mode : 5700 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	53.29	45.05	68.20	-23.15 peak
2	8342.406	11.70	38.58	55.59	51.77	46.46	74.00	-27.54 peak
3	8645.178	12.02	38.41	55.32	52.13	47.24	68.20	-20.96 peak
4	10123.710	13.23	39.10	54.03	49.83	48.13	68.20	-20.07 peak
5	11400.000	14.21	39.70	53.62	46.31	46.60	74.00	-27.40 peak
6	pp17100.000	18.47	39.80	54.32	44.91	48.86	68.20	-19.34 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	53.01	44.84	74.00	-29.16 peak
2	8342.406	11.70	38.58	55.59	53.31	48.00	74.00	-26.00 peak
3	8698.174	12.09	38.59	55.27	52.29	47.70	68.20	-20.50 peak
4	pp10041.550	13.12	38.98	54.08	49.93	47.95	68.20	-20.25 peak
5	11400.000	14.21	39.70	53.62	48.13	48.42	74.00	-25.58 peak
6	17100.000	18.47	39.80	54.32	43.83	47.78	68.20	-20.42 peak



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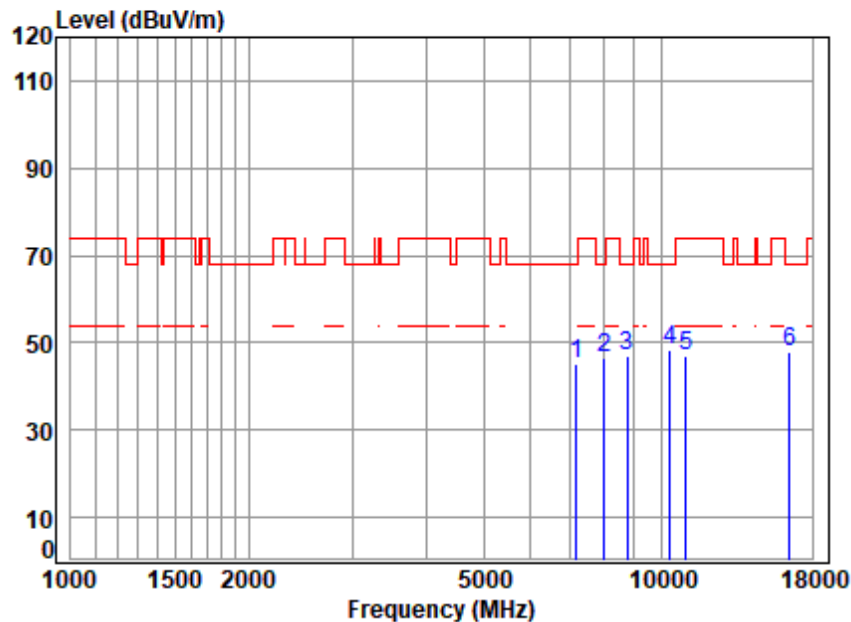
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7182.317	11.60	36.56	56.55	53.41	45.02	68.20	-23.18 peak
2	7993.045	11.56	37.79	55.91	53.04	46.48	68.20	-21.72 peak
3	8760.413	12.19	38.50	55.22	51.68	47.15	68.20	-21.05 peak
4	pp10363.680	13.61	39.00	53.88	49.67	48.40	68.20	-19.80 peak
5	11000.000	14.17	39.40	53.50	46.96	47.03	74.00	-26.97 peak
6	16500.000	17.74	38.90	54.15	45.56	48.05	68.20	-20.15 peak



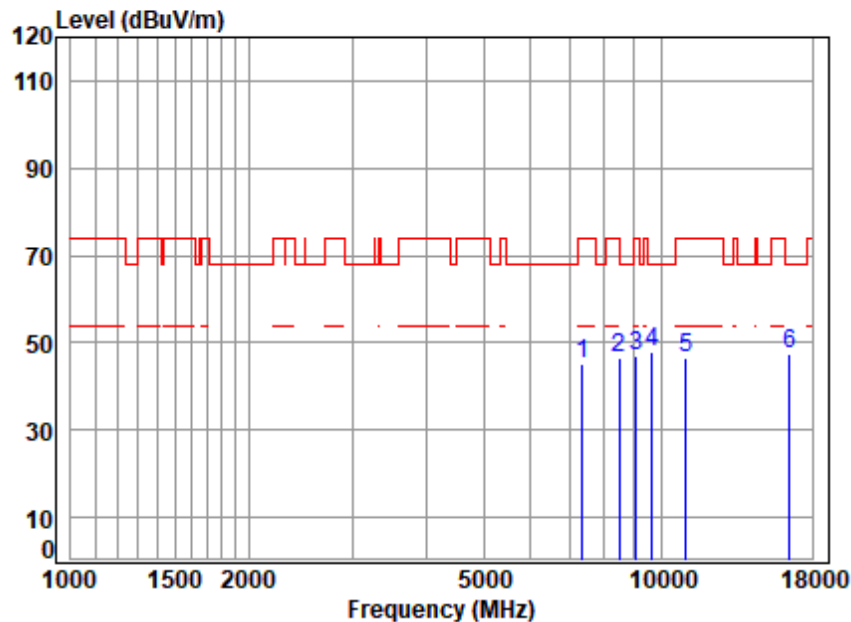
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.20	45.06	74.00	-28.94 peak
2	8488.119	12.23	38.32	55.46	51.24	46.33	74.00	-27.67 peak
3	9059.880	12.13	38.60	54.95	50.99	46.77	74.00	-27.23 peak
4 pp	9630.836	12.51	38.74	54.43	51.17	47.99	68.20	-20.21 peak
5	11000.000	14.17	39.40	53.50	46.68	46.75	74.00	-27.25 peak
6	16500.000	17.74	38.90	54.15	45.14	47.63	68.20	-20.57 peak



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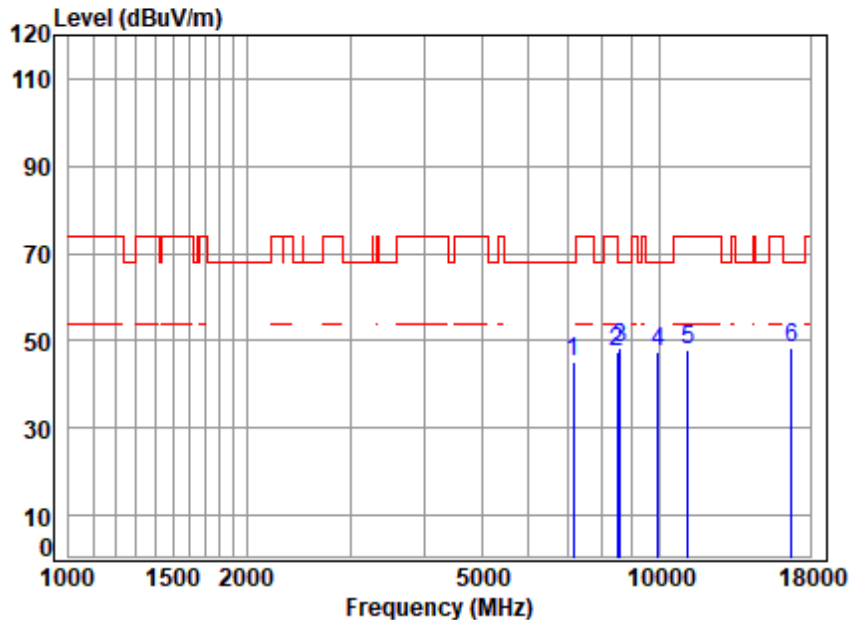
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5580 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7153.113	11.74	36.51	56.58	53.28	44.95	68.20	-23.25 peak
2	8479.478	12.17	38.34	55.47	52.22	47.26	74.00	-26.74 peak
3	8601.261	11.96	38.50	55.36	53.04	48.14	68.20	-20.06 peak
4	9949.918	12.90	38.90	54.15	49.99	47.64	68.20	-20.56 peak
5	11160.000	14.72	39.56	53.55	47.36	48.09	74.00	-25.91 peak
6	pp16740.000	17.54	39.48	54.22	45.56	48.36	68.20	-19.84 peak



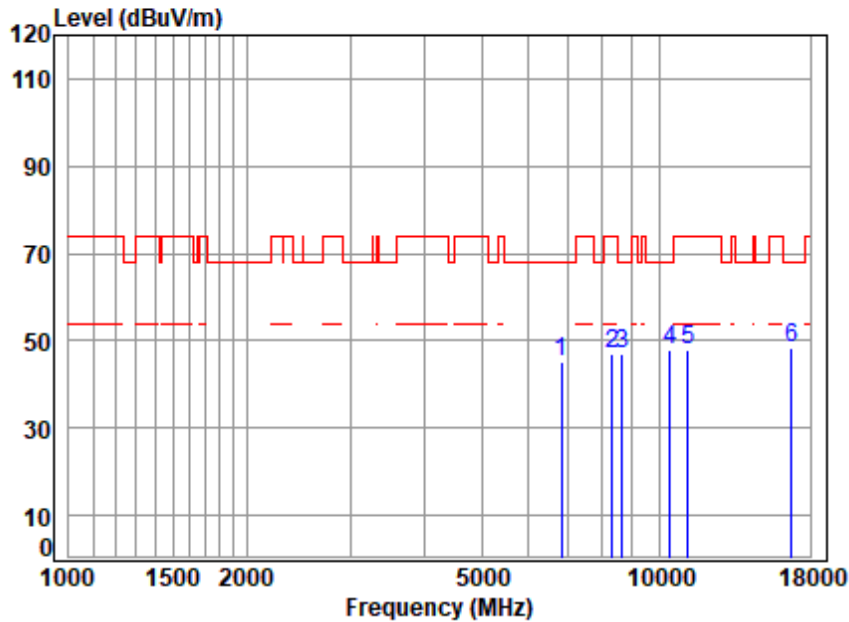
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5580 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6825.690	11.37	35.95	56.73	54.46	45.05	68.20	-23.15 peak
2	8333.913	11.72	38.44	55.60	52.40	46.96	74.00	-27.04 peak
3	8653.987	12.03	38.42	55.31	51.87	47.01	68.20	-21.19 peak
4	10416.590	13.62	39.02	53.85	49.26	48.05	68.20	-20.15 peak
5	11160.000	14.72	39.56	53.55	47.39	48.12	74.00	-25.88 peak
6	pp16740.000	17.54	39.48	54.22	45.59	48.39	68.20	-19.81 peak

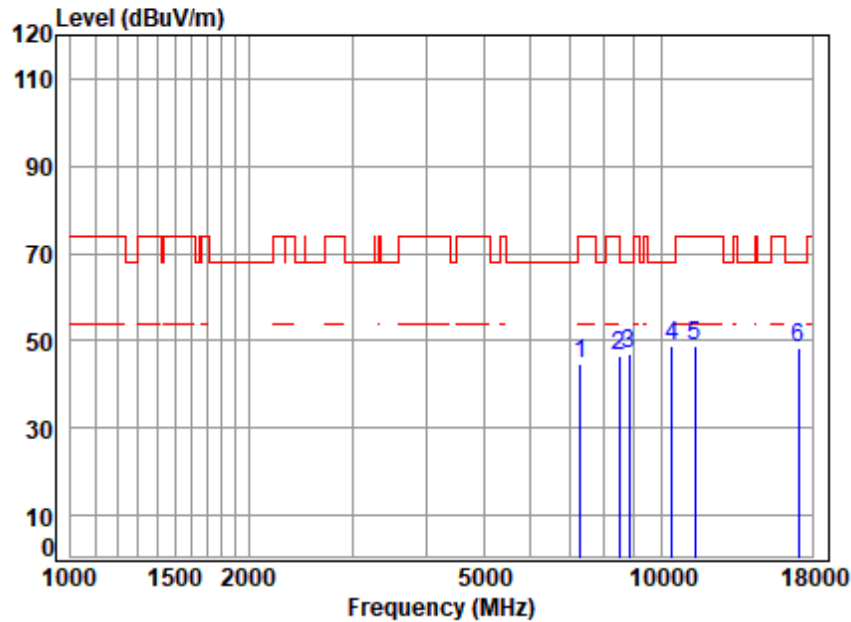
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5700 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	53.11	44.84	74.00	-29.16 peak
2	8496.769	12.29	38.31	55.45	51.44	46.59	74.00	-27.41 peak
3	8805.143	12.25	38.50	55.18	51.49	47.06	68.20	-21.14 peak
4	pp10416.590	13.62	39.02	53.85	49.94	48.73	68.20	-19.47 peak
5	11400.000	14.21	39.70	53.62	48.51	48.80	74.00	-25.20 peak
6	17100.000	18.47	39.80	54.32	44.43	48.38	68.20	-19.82 peak



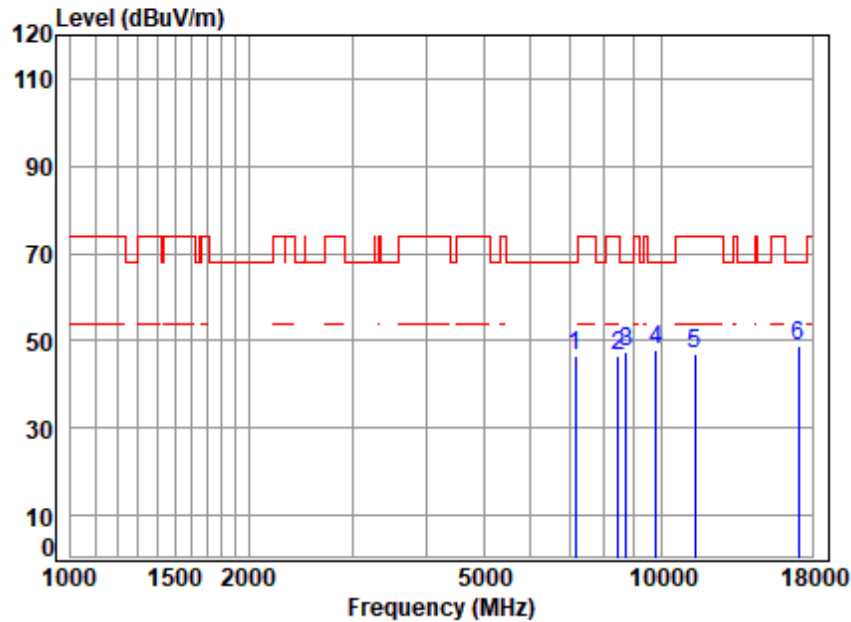
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7160.403	11.71	36.52	56.57	54.86	46.52	68.20	-21.68 peak
2	8453.606	11.99	38.39	55.49	51.85	46.74	74.00	-27.26 peak
3	8707.038	12.10	38.59	55.26	52.19	47.62	68.20	-20.58 peak
4	9799.053	13.09	38.60	54.28	50.72	48.13	68.20	-20.07 peak
5	11400.000	14.21	39.70	53.62	46.77	47.06	74.00	-26.94 peak
6	pp17100.000	18.47	39.80	54.32	44.70	48.65	68.20	-19.55 peak



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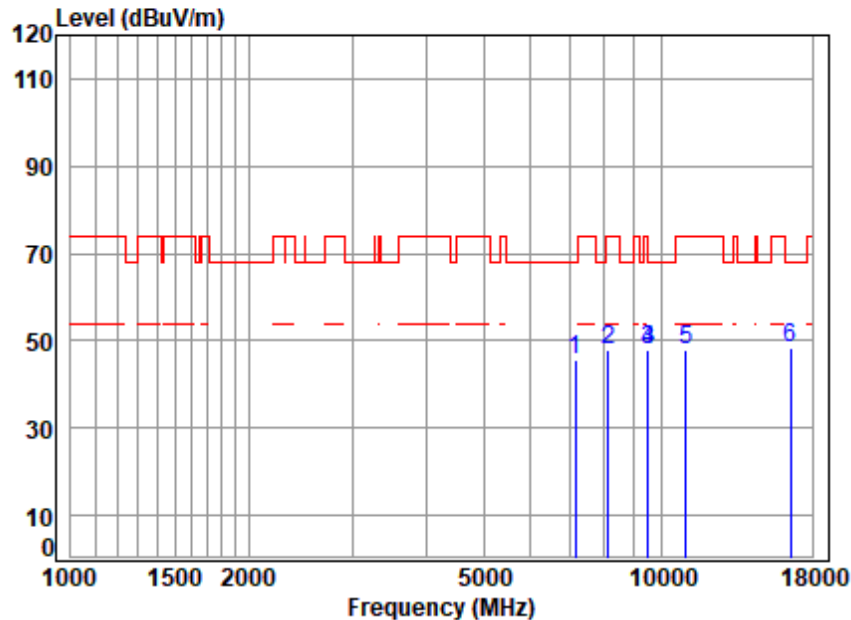
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5510 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7145.831	11.77	36.49	56.58	53.76	45.44	68.20	-22.76 peak
2	8132.655	11.49	37.87	55.78	54.12	47.70	74.00	-26.30 peak
3	9504.150	12.55	38.89	54.55	50.90	47.79	68.20	-20.41 peak
4	9504.150	12.55	38.89	54.55	50.90	47.79	68.20	-20.41 peak
5	11020.000	14.27	39.42	53.51	47.71	47.89	74.00	-26.11 peak
6	pp16530.000	17.71	38.99	54.16	45.80	48.34	68.20	-19.86 peak



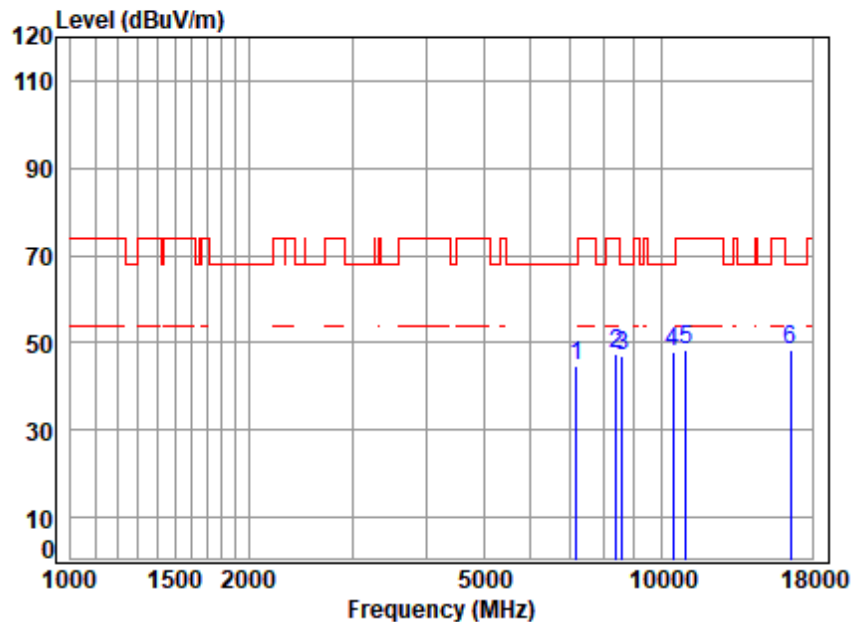
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5510 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7182.317	11.60	36.56	56.55	53.03	44.64	68.20	-23.56 peak
2	8376.465	11.66	38.65	55.56	52.50	47.25	74.00	-26.75 peak
3	8583.757	12.02	38.44	55.37	51.93	47.02	68.20	-21.18 peak
4	10469.780	13.63	39.07	53.82	49.19	48.07	68.20	-20.13 peak
5	11020.000	14.27	39.42	53.51	48.01	48.19	74.00	-25.81 peak
6	pp16530.000	17.71	38.99	54.16	45.76	48.30	68.20	-19.90 peak



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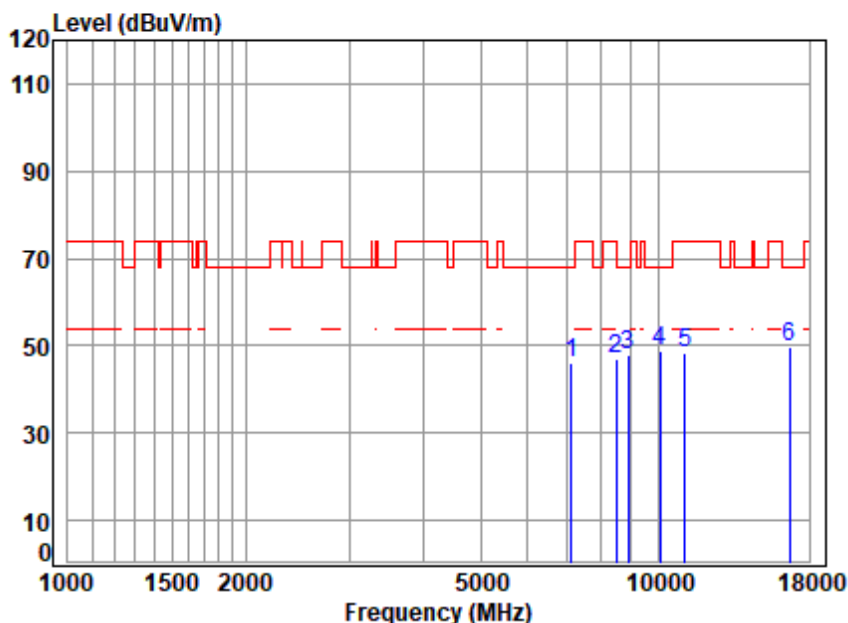
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5550 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	54.54	46.27	68.20	-21.93 peak
2	8488.119	12.23	38.32	55.46	52.02	47.11	74.00	-26.89 peak
3	8904.353	12.22	38.59	55.09	52.38	48.10	68.20	-20.10 peak
4	10072.280	13.20	39.04	54.06	50.77	48.95	68.20	-19.25 peak
5	11100.000	14.66	39.50	53.53	47.90	48.53	74.00	-25.47 peak
6	pp16650.000	17.62	39.30	54.19	46.84	49.57	68.20	-18.63 peak



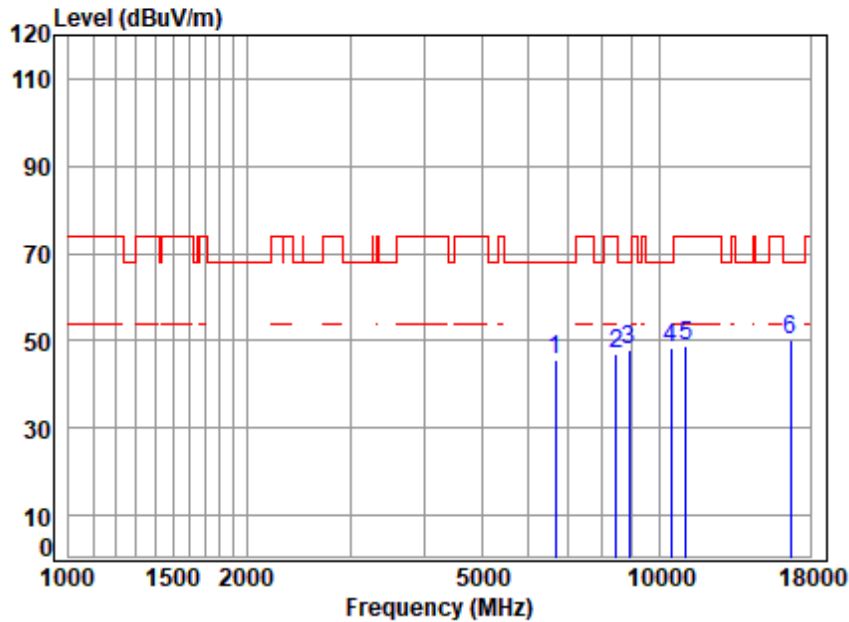
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5550 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6660.855	11.48	35.48	56.77	55.48	45.67	68.20	-22.53 peak
2	8445.000	11.94	38.42	55.50	52.33	47.19	74.00	-26.81 peak
3	8877.185	12.23	38.55	55.11	52.34	48.01	68.20	-20.19 peak
4	10469.780	13.63	39.07	53.82	49.71	48.59	68.20	-19.61 peak
5	11100.000	14.66	39.50	53.53	48.39	49.02	74.00	-24.98 peak
6	pp16650.000	17.62	39.30	54.19	47.49	50.22	68.20	-17.98 peak



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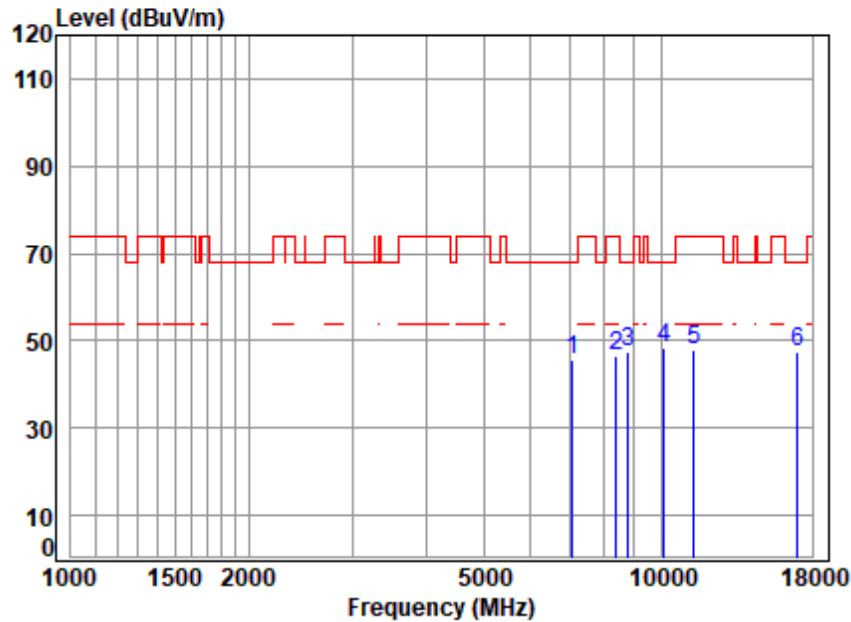
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5670 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7080.624	11.87	36.36	56.64	54.05	45.64	68.20	-22.56 peak
2	8385.002	11.65	38.63	55.55	51.62	46.35	74.00	-27.65 peak
3	8796.179	12.24	38.50	55.18	51.84	47.40	68.20	-20.80 peak
4	pp10103.110	13.26	39.10	54.04	49.89	48.21	68.20	-19.99 peak
5	11340.000	14.47	39.70	53.60	47.26	47.83	74.00	-26.17 peak
6	17010.000	18.11	39.71	54.30	44.12	47.64	68.20	-20.56 peak



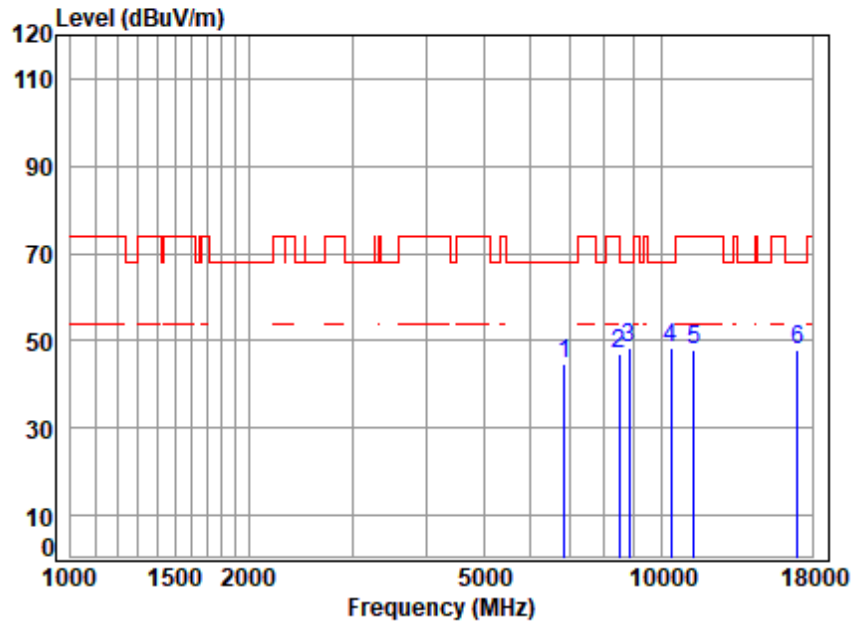
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5670 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6853.557	11.37	36.01	56.73	54.26	44.91	68.20	-23.29 peak
2	8496.769	12.29	38.31	55.45	51.79	46.94	74.00	-27.06 peak
3 pp	8814.115	12.25	38.50	55.17	52.68	48.26	68.20	-19.94 peak
4	10384.810	13.61	39.00	53.87	49.42	48.16	68.20	-20.04 peak
5	11340.000	14.47	39.70	53.60	47.43	48.00	74.00	-26.00 peak
6	17010.000	18.11	39.71	54.30	44.59	48.11	68.20	-20.09 peak



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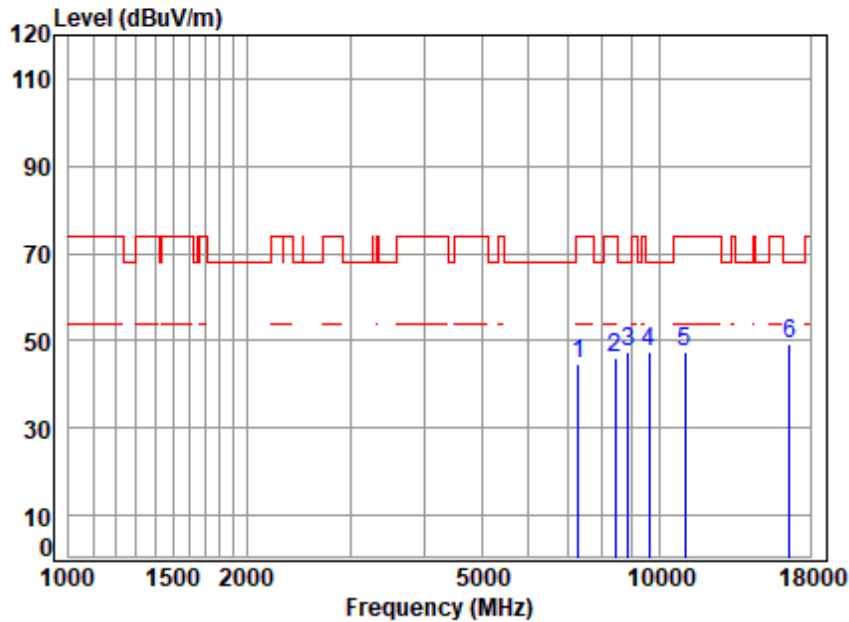
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5530 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7292.895	11.51	36.69	56.47	53.14	44.87	74.00 -29.13 peak
2	8419.234	11.76	38.52	55.52	51.18	45.94	74.00 -28.06 peak
3	8859.119	12.23	38.52	55.13	51.67	47.29	68.20 -20.91 peak
4	9621.031	12.49	38.76	54.44	50.83	47.64	68.20 -20.56 peak
5	11060.000	14.46	39.46	53.52	46.93	47.33	74.00 -26.67 peak
6	pp16590.000	17.66	39.17	54.18	46.58	49.23	68.20 -18.97 peak



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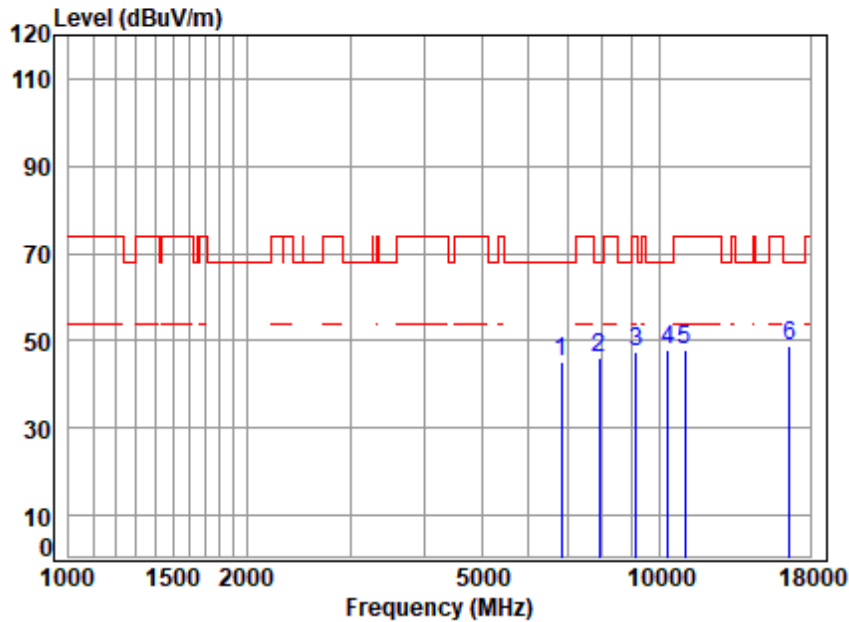
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5530 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6832.646	11.37	35.97	56.73	54.54	45.15	68.20	-23.05 peak
2	7920.106	11.54	37.64	55.96	52.87	46.09	68.20	-22.11 peak
3	9143.314	12.21	38.69	54.87	51.45	47.48	74.00	-26.52 peak
4	10353.130	13.60	39.00	53.89	49.12	47.83	68.20	-20.37 peak
5	11060.000	14.46	39.46	53.52	47.35	47.75	74.00	-26.25 peak
6	pp16590.000	17.66	39.17	54.18	46.19	48.84	68.20	-19.36 peak



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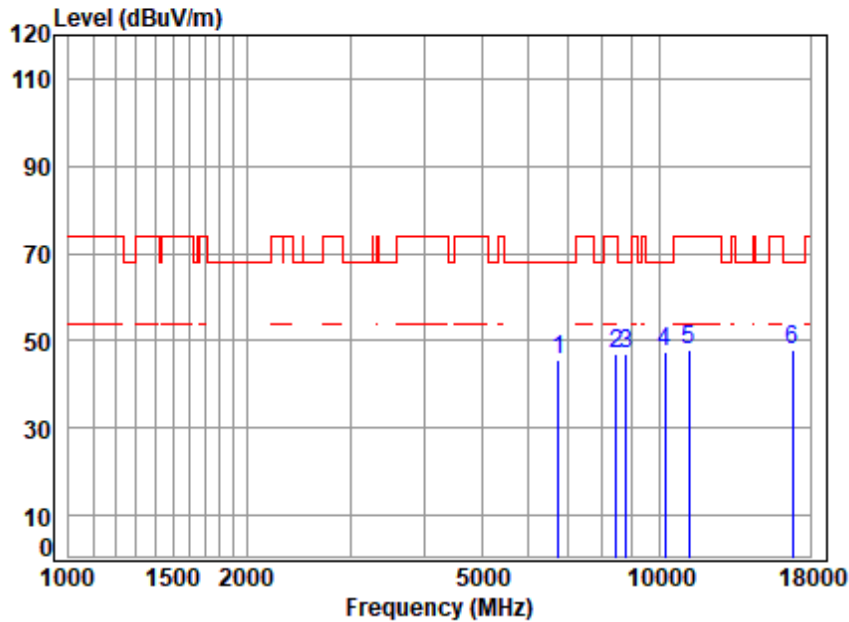
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5610 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6742.769	11.39	35.66	56.75	55.42	45.72	68.20	-22.48 peak
2	8445.000	11.94	38.42	55.50	52.20	47.06	74.00	-26.94 peak
3	8778.277	12.22	38.50	55.20	51.57	47.09	68.20	-21.11 peak
4	10216.940	13.17	39.08	53.97	49.38	47.66	68.20	-20.54 peak
5	11220.000	14.74	39.62	53.57	47.32	48.11	74.00	-25.89 peak
6	pp16830.000	17.68	39.60	54.25	44.94	47.97	68.20	-20.23 peak



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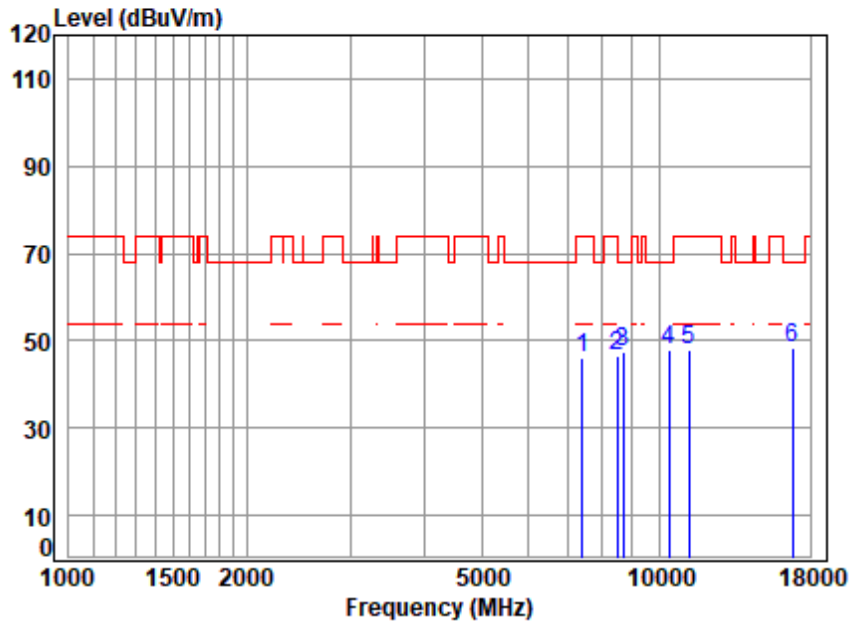
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Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5610 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7420.276	11.45	36.74	56.36	54.05	45.88	74.00	-28.12 peak
2	8470.845	12.11	38.36	55.48	51.37	46.36	74.00	-27.64 peak
3	8680.473	12.06	38.52	55.29	52.20	47.49	68.20	-20.71 peak
4	10384.810	13.61	39.00	53.87	49.19	47.93	68.20	-20.27 peak
5	11220.000	14.74	39.62	53.57	47.08	47.87	74.00	-26.13 peak
6	pp16830.000	17.68	39.60	54.25	45.45	48.48	68.20	-19.72 peak



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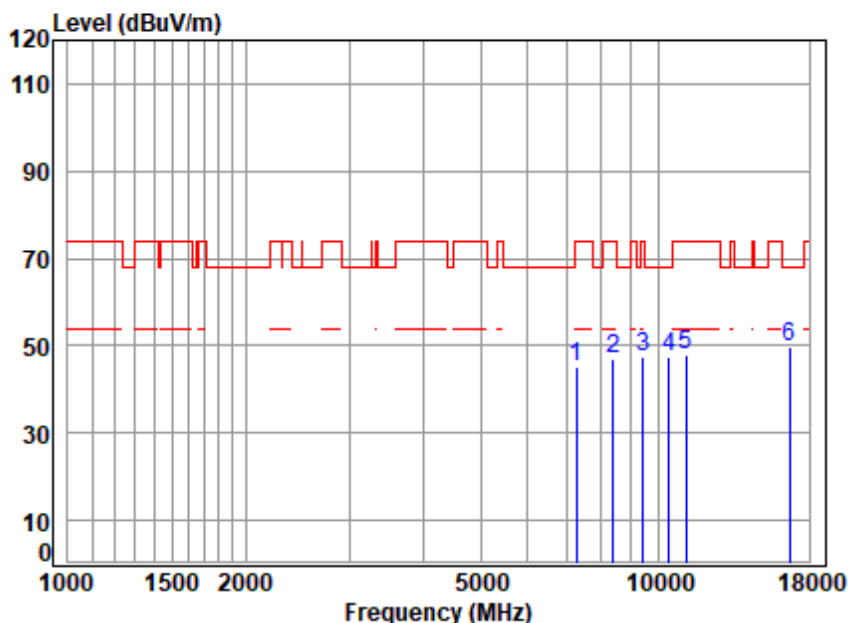
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5570 TX RSE

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7270.644	11.51	36.64	56.48	53.56	45.23	74.00 -28.77 peak
2	8376.465	11.66	38.65	55.56	52.04	46.79	74.00 -27.21 peak
3	9436.627	12.40	38.80	54.61	50.72	47.31	74.00 -26.69 peak
4	10416.590	13.62	39.02	53.85	48.76	47.55	68.20 -20.65 peak
5	11140.000	14.70	39.54	53.54	47.31	48.01	74.00 -25.99 peak
6	pp16710.000	17.58	39.42	54.21	46.72	49.51	68.20 -18.69 peak



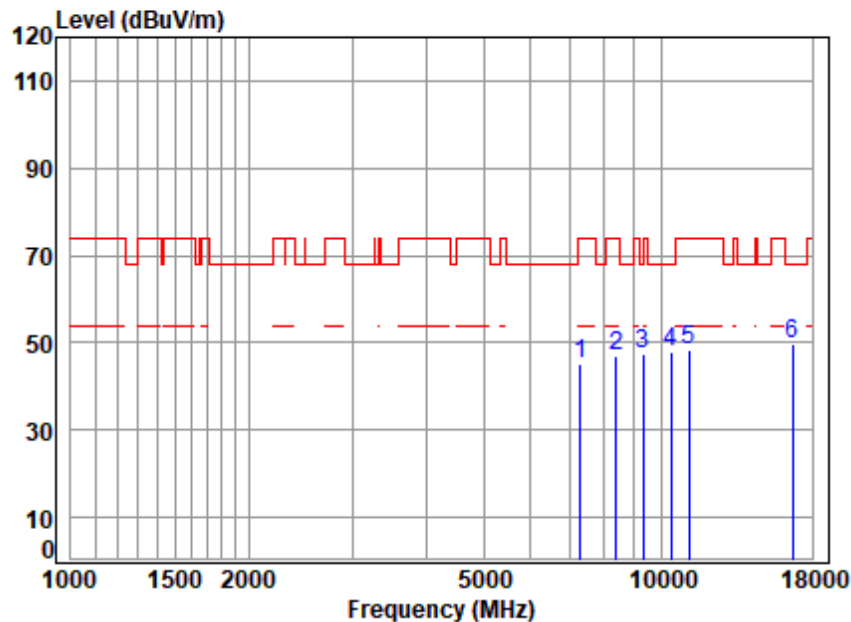
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5570 TX RSE

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	53.24	44.95	74.00	-29.05 peak
2	8385.002	11.65	38.63	55.55	52.29	47.02	74.00	-26.98 peak
3	9303.017	12.17	38.80	54.73	51.11	47.35	74.00	-26.65 peak
4	10374.240	13.61	39.00	53.88	49.24	47.97	68.20	-20.23 peak
5	11140.000	14.70	39.54	53.54	47.76	48.46	74.00	-25.54 peak
6	pp16710.000	17.58	39.42	54.21	46.72	49.51	68.20	-18.69 peak



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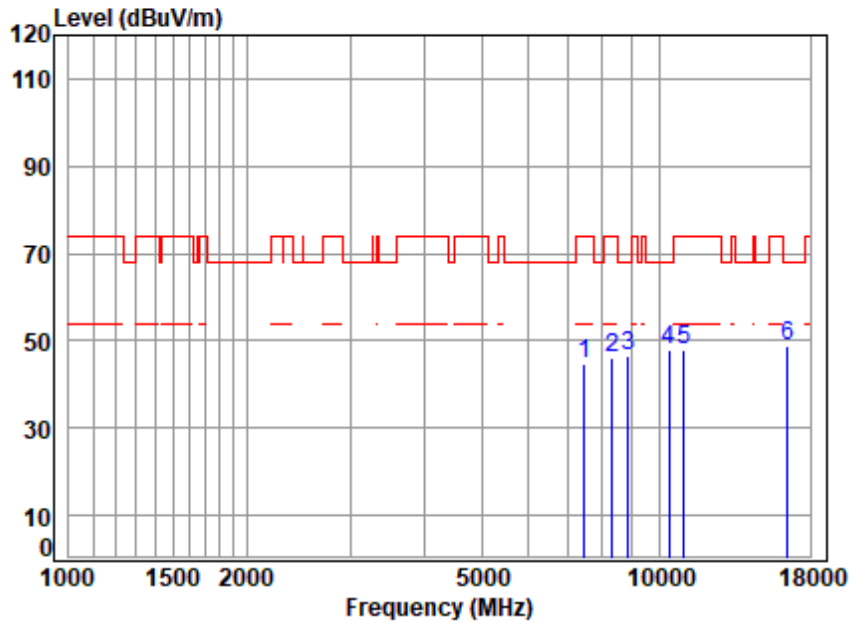
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 11; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7473.371	11.30	36.80	56.32	53.14	44.92	74.00	-29.08 peak
2	8333.913	11.72	38.44	55.60	51.68	46.24	74.00	-27.76 peak
3	8841.090	12.24	38.50	55.14	51.11	46.71	68.20	-21.49 peak
4	10395.390	13.62	39.00	53.86	49.05	47.81	68.20	-20.39 peak
5	11000.000	14.17	39.40	53.50	47.67	47.74	74.00	-26.26 peak
6	pp16500.000	17.74	38.90	54.15	46.52	49.01	68.20	-19.19 peak



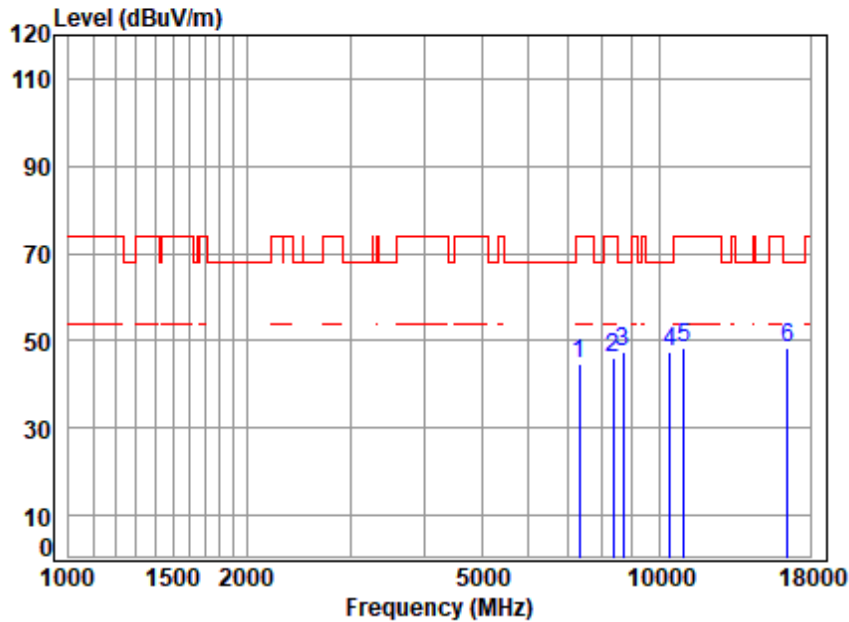
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	52.73	44.56	74.00	-29.44 peak
2	8367.938	11.67	38.66	55.57	51.46	46.22	74.00	-27.78 peak
3	8698.174	12.09	38.59	55.27	52.04	47.45	68.20	-20.75 peak
4	10416.590	13.62	39.02	53.85	48.87	47.66	68.20	-20.54 peak
5	11000.000	14.17	39.40	53.50	48.24	48.31	74.00	-25.69 peak
6	pp16500.000	17.74	38.90	54.15	45.66	48.15	68.20	-20.05 peak



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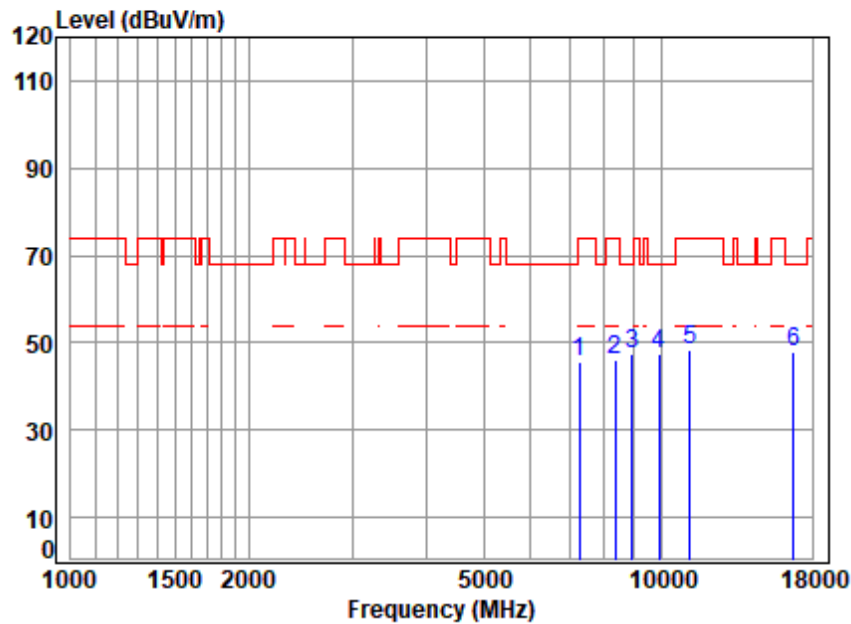
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Test Mode: 11; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5580 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7270.644	11.51	36.64	56.48	54.04	45.71	74.00 -28.29 peak
2	8359.419	11.68	38.68	55.58	51.53	46.31	74.00 -27.69 peak
3	8940.705	12.19	38.52	55.05	51.71	47.37	68.20 -20.83 peak
4	9899.373	12.80	38.89	54.19	49.97	47.47	68.20 -20.73 peak
5	11160.000	14.72	39.56	53.55	47.65	48.38	74.00 -25.62 peak
6	pp16740.000	17.54	39.48	54.22	45.14	47.94	68.20 -20.26 peak



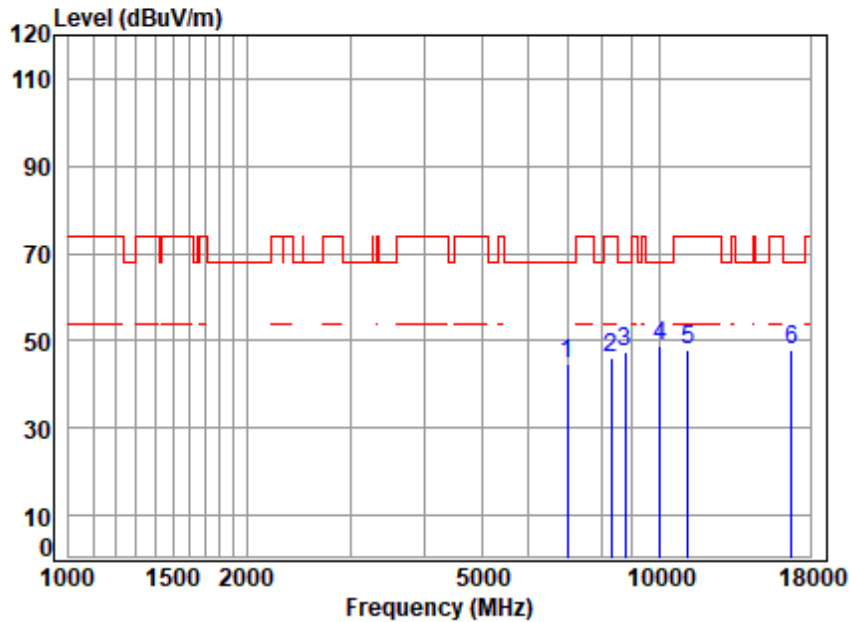
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5580 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7001.733	11.38	36.20	56.70	53.76	44.64	68.20	-23.56 peak
2	8291.578	11.74	37.88	55.64	52.07	46.05	74.00	-27.95 peak
3	8742.585	12.16	38.51	55.23	52.04	47.48	68.20	-20.72 peak
4	pp10031.330	13.09	38.96	54.08	50.67	48.64	68.20	-19.56 peak
5	11160.000	14.72	39.56	53.55	47.26	47.99	74.00	-26.01 peak
6	16740.000	17.54	39.48	54.22	45.14	47.94	68.20	-20.26 peak



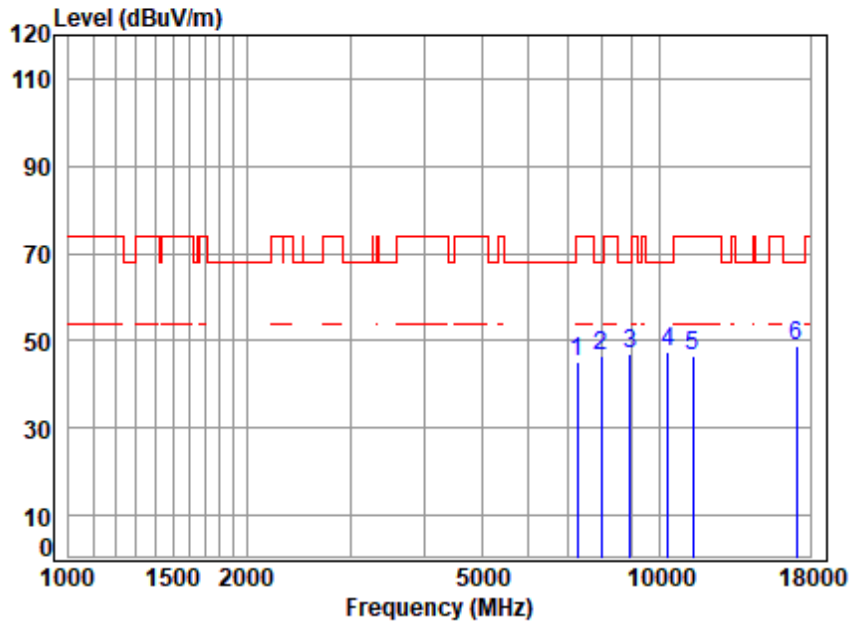
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Test Mode: 11; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5700 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	53.67	45.34	74.00	-28.66 peak
2	7960.545	11.55	37.72	55.93	53.18	46.52	68.20	-21.68 peak
3	8913.427	12.21	38.57	55.08	51.13	46.83	68.20	-21.37 peak
4	10342.590	13.60	39.00	53.89	48.88	47.59	68.20	-20.61 peak
5	11400.000	14.21	39.70	53.62	46.40	46.69	74.00	-27.31 peak
6	pp17100.000	18.47	39.80	54.32	45.10	49.05	68.20	-19.15 peak



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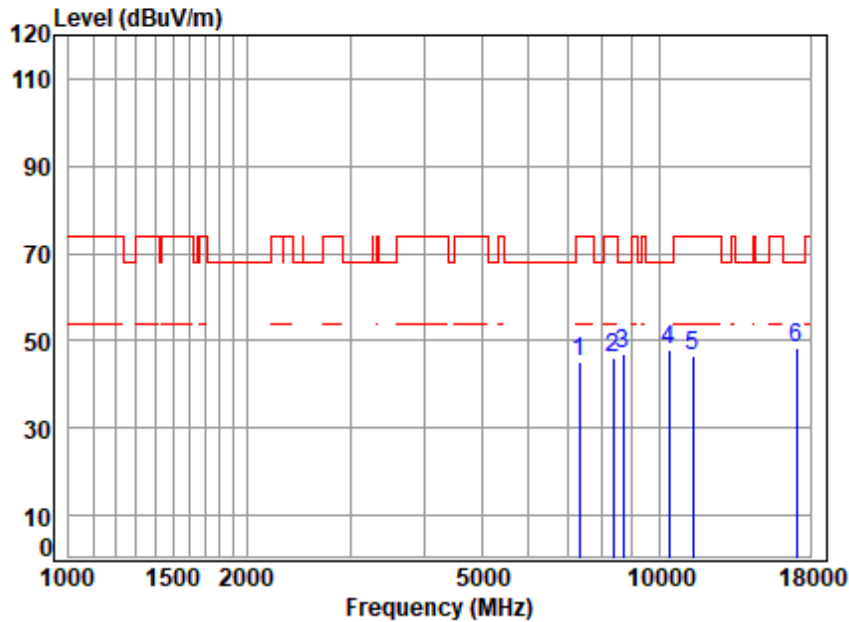
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7322.668	11.51	36.75	56.44	53.58	45.40	74.00 -28.60 peak
2	8350.908	11.69	38.70	55.58	51.43	46.24	74.00 -27.76 peak
3	8671.635	12.05	38.49	55.30	51.71	46.95	68.20 -21.25 peak
4	10384.810	13.61	39.00	53.87	49.18	47.92	68.20 -20.28 peak
5	11400.000	14.21	39.70	53.62	46.35	46.64	74.00 -27.36 peak
6	pp17100.000	18.47	39.80	54.32	44.61	48.56	68.20 -19.64 peak



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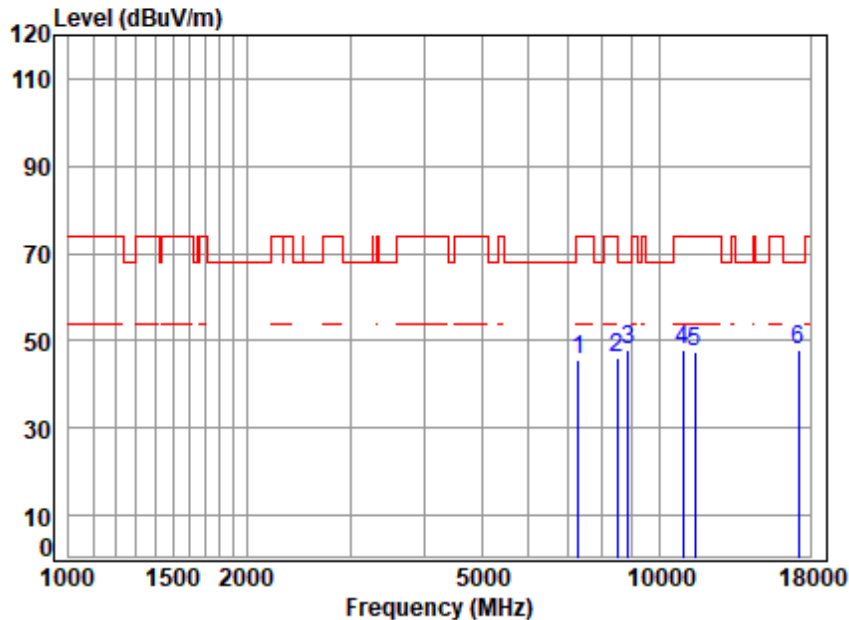
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	54.09	45.82	74.00	-28.18 peak
2	8488.119	12.23	38.32	55.46	51.10	46.19	74.00	-27.81 peak
3 pp	8859.119	12.23	38.52	55.13	52.51	48.13	68.20	-20.07 peak
4	10972.000	14.11	39.37	53.52	48.17	48.13	74.00	-25.87 peak
5	11490.000	14.97	39.61	53.65	46.46	47.39	74.00	-26.61 peak
6	17235.000	17.83	40.01	54.35	44.22	47.71	68.20	-20.49 peak



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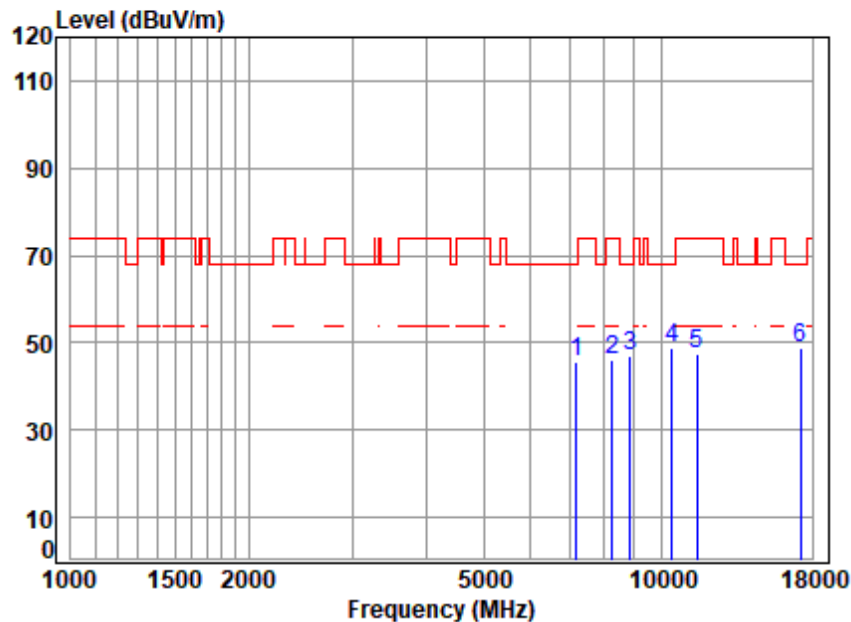
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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	53.89	45.53	68.20	-22.67 peak
2	8266.280	11.70	37.83	55.66	52.23	46.10	74.00	-27.90 peak
3	8868.147	12.23	38.54	55.12	51.46	47.11	68.20	-21.09 peak
4	pp10405.990	13.62	39.01	53.86	50.00	48.77	68.20	-19.43 peak
5	11490.000	14.97	39.61	53.65	46.67	47.60	74.00	-26.40 peak
6	17235.000	17.83	40.01	54.35	45.27	48.76	68.20	-19.44 peak



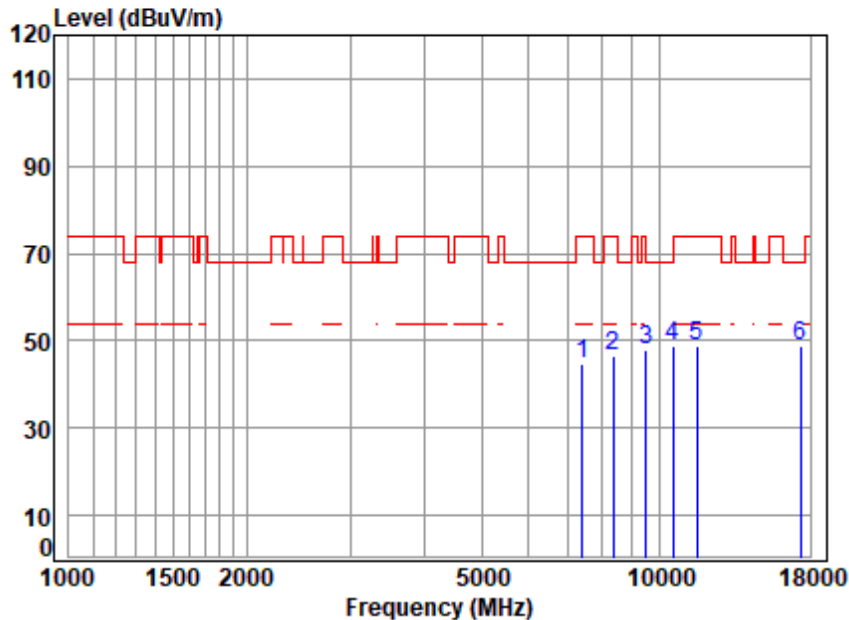
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7420.276	11.45	36.74	56.36	52.85	44.68	74.00	-29.32 peak
2	8350.908	11.69	38.70	55.58	51.51	46.32	74.00	-27.68 peak
3	9494.476	12.55	38.89	54.55	50.95	47.84	74.00	-26.16 peak
4	10544.690	13.62	39.19	53.77	49.69	48.73	68.20	-19.47 peak
5	11570.000	14.78	39.60	53.67	48.13	48.84	74.00	-25.16 peak
6	pp17355.000	18.00	40.31	54.37	44.83	48.77	68.20	-19.43 peak



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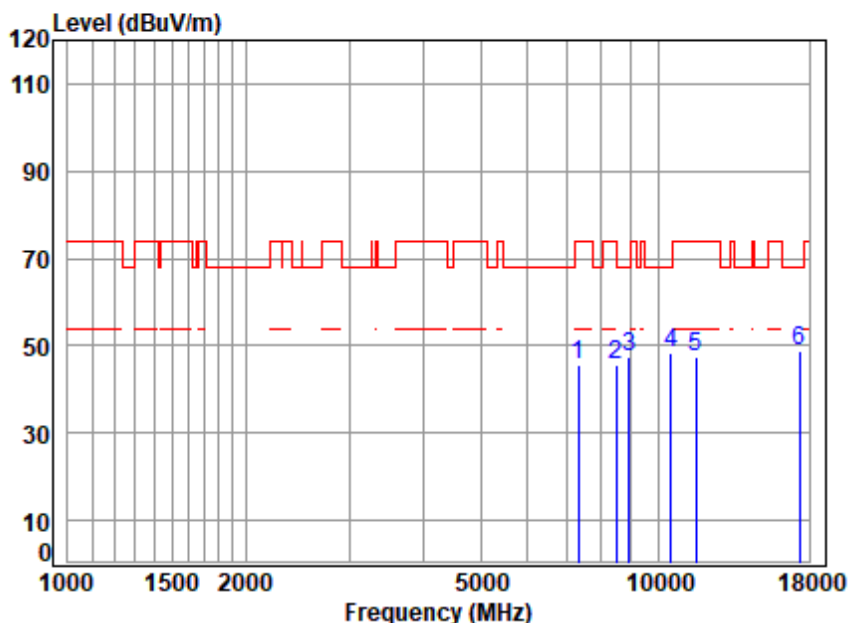
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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7307.767	11.51	36.72	56.45	53.92	45.70	74.00	-28.30 peak
2	8496.769	12.29	38.31	55.45	50.58	45.73	74.00	-28.27 peak
3	8913.427	12.21	38.57	55.08	51.85	47.55	68.20	-20.65 peak
4	10523.230	13.63	39.15	53.79	49.44	48.43	68.20	-19.77 peak
5	11570.000	14.78	39.60	53.67	46.83	47.54	74.00	-26.46 peak
6	pp17355.000	18.00	40.31	54.37	44.95	48.89	68.20	-19.31 peak



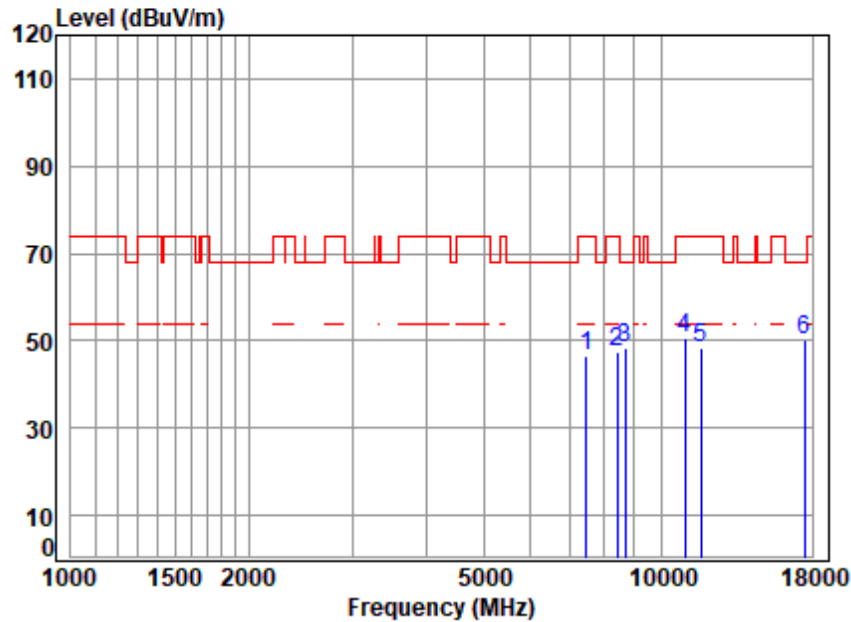
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 TX RSE

: 5GWIFI MIMO 11A

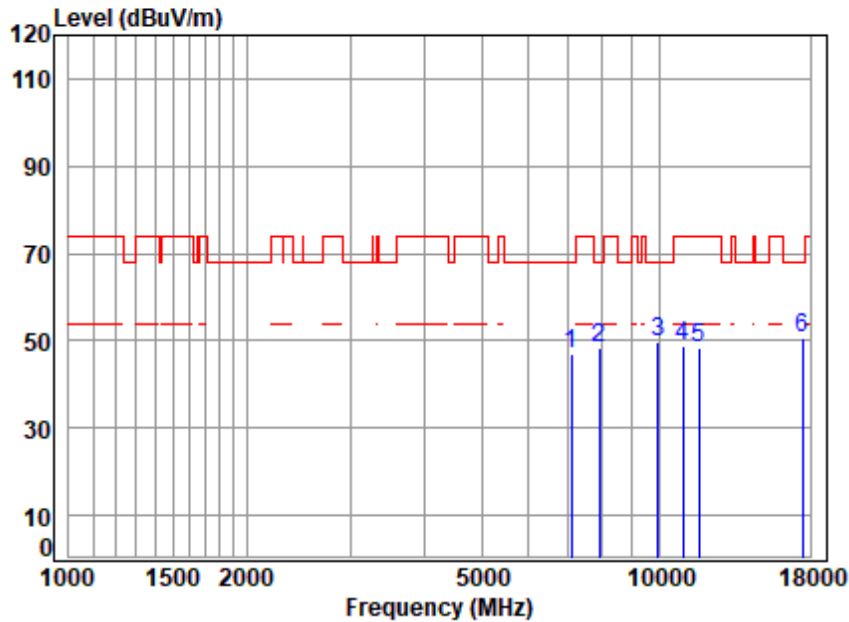
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7473.371	11.30	36.80	56.32	54.75	46.53	74.00	-27.47 peak
2	8419.234	11.76	38.52	55.52	52.78	47.54	74.00	-26.46 peak
3	8689.318	12.08	38.56	55.28	53.01	48.37	68.20	-19.83 peak
4	10960.830	14.09	39.36	53.52	50.49	50.42	74.00	-23.58 peak
5	11650.000	14.69	39.55	53.69	47.66	48.21	74.00	-25.79 peak
6	pp17475.000	18.35	40.78	54.40	45.60	50.33	68.20	-17.87 peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 TX RSE

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	55.26	47.02	68.20	-21.18 peak
2	7920.106	11.54	37.64	55.96	55.07	48.29	68.20	-19.91 peak
3	9960.058	12.93	38.90	54.14	51.83	49.52	68.20	-18.68 peak
4	10949.680	14.06	39.35	53.53	49.08	48.96	74.00	-25.04 peak
5	11650.000	14.69	39.55	53.69	47.88	48.43	74.00	-25.57 peak
6	pp17475.000	18.35	40.78	54.40	45.94	50.67	68.20	-17.53 peak



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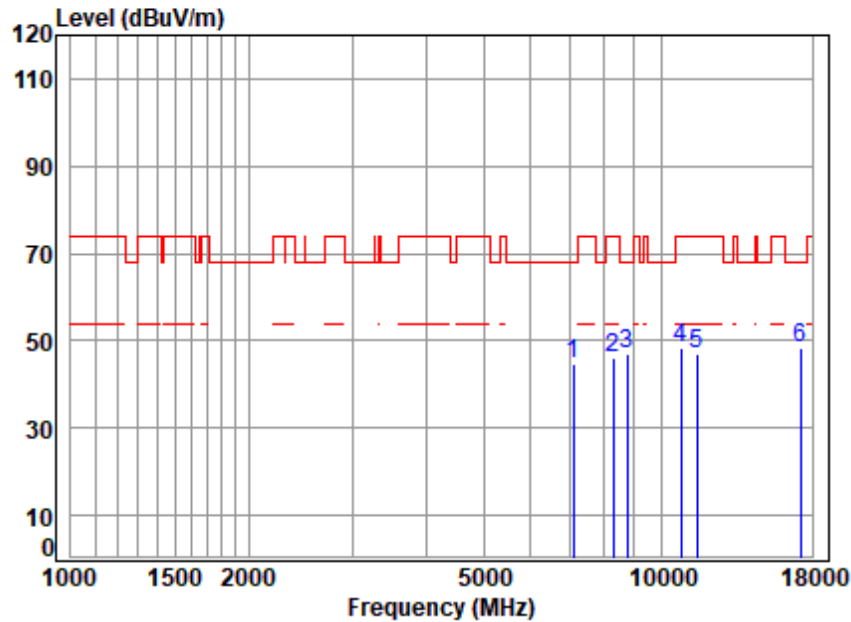
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	53.16	44.82	68.20	-23.38 peak
2	8274.704	11.71	37.85	55.65	51.98	45.89	74.00	-28.11 peak
3	8751.494	12.17	38.50	55.22	51.59	47.04	68.20	-21.16 peak
4	10783.650	13.74	39.32	53.63	48.82	48.25	74.00	-25.75 peak
5	11490.000	14.97	39.61	53.65	46.04	46.97	74.00	-27.03 peak
6	pp17235.000	17.83	40.01	54.35	44.96	48.45	68.20	-19.75 peak



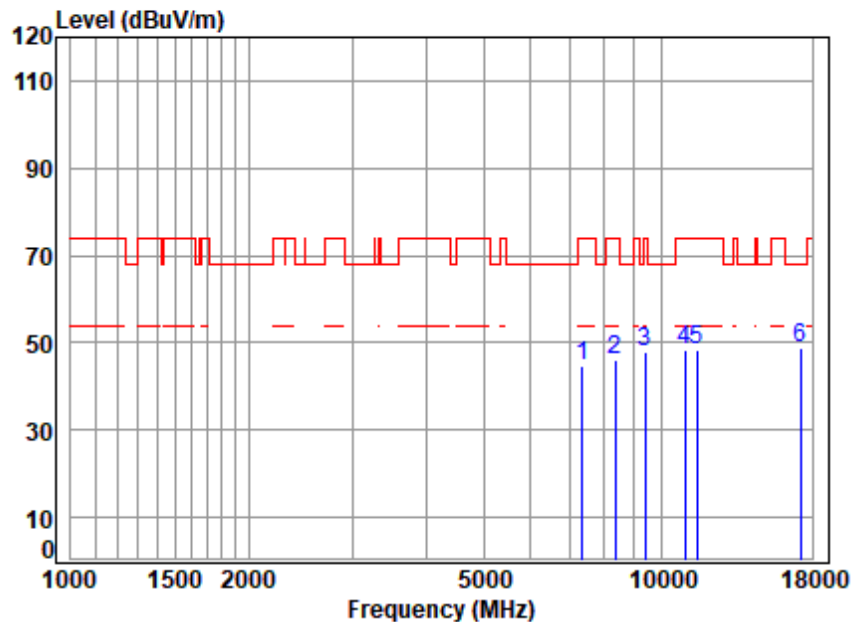
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	52.97	44.85	74.00	-29.15 peak
2	8342.406	11.70	38.58	55.59	51.57	46.26	74.00	-27.74 peak
3	9398.258	12.30	38.80	54.64	51.32	47.78	74.00	-26.22 peak
4	10949.680	14.06	39.35	53.53	48.31	48.19	74.00	-25.81 peak
5	11490.000	14.97	39.61	53.65	47.57	48.50	74.00	-25.50 peak
6	pp17235.000	17.83	40.01	54.35	45.31	48.80	68.20	-19.40 peak



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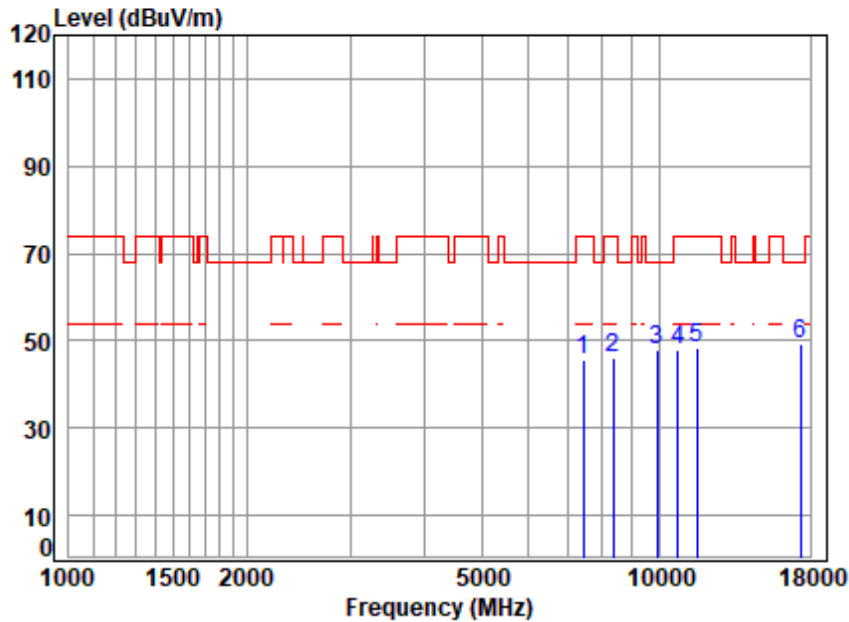
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7450.570	11.36	36.80	56.34	53.60	45.42	74.00	-28.58 peak
2	8359.419	11.68	38.68	55.58	51.40	46.18	74.00	-27.82 peak
3	9929.669	12.86	38.90	54.16	50.12	47.72	68.20	-20.48 peak
4	10772.670	13.78	39.33	53.64	48.63	48.10	74.00	-25.90 peak
5	11570.000	14.78	39.60	53.67	47.63	48.34	74.00	-25.66 peak
6	pp17355.000	18.00	40.31	54.37	45.34	49.28	68.20	-18.92 peak



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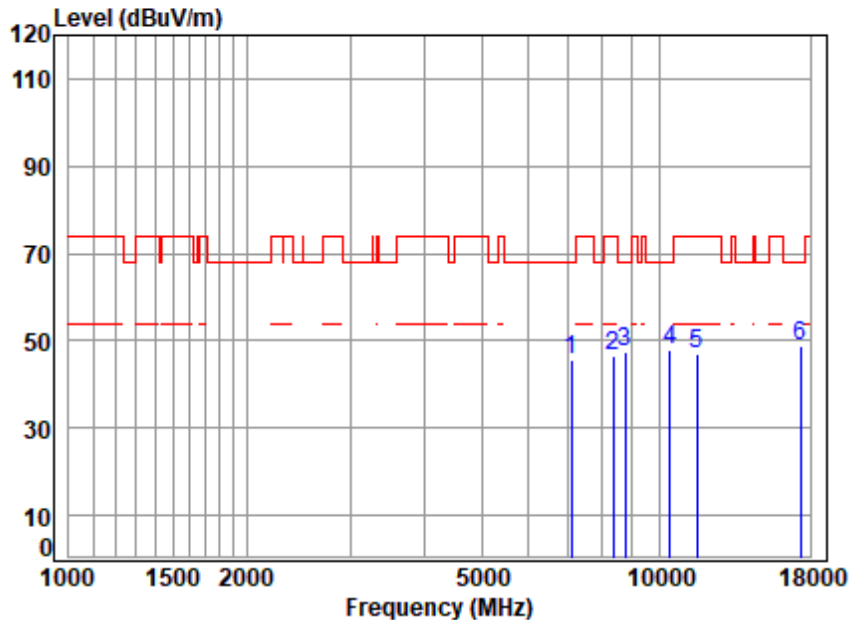
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Report No.: SZCR240300076704

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.68	45.44	68.20	-22.76 peak
2	8359.419	11.68	38.68	55.58	51.54	46.32	74.00	-27.68 peak
3	8751.494	12.17	38.50	55.22	52.22	47.67	68.20	-20.53 peak
4	10427.210	13.63	39.03	53.84	49.21	48.03	68.20	-20.17 peak
5	11570.000	14.78	39.60	53.67	46.51	47.22	74.00	-26.78 peak
6	pp17355.000	18.00	40.31	54.37	44.70	48.64	68.20	-19.56 peak



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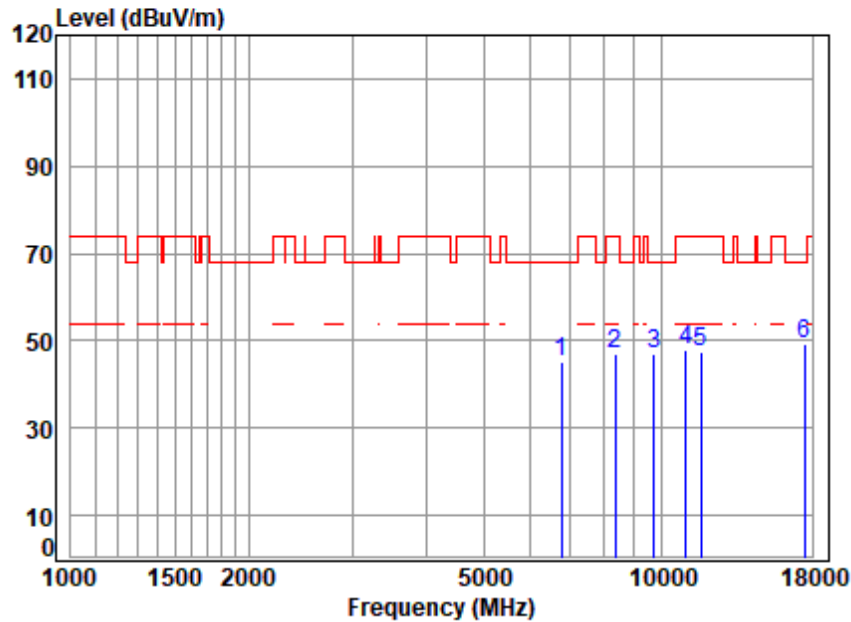
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

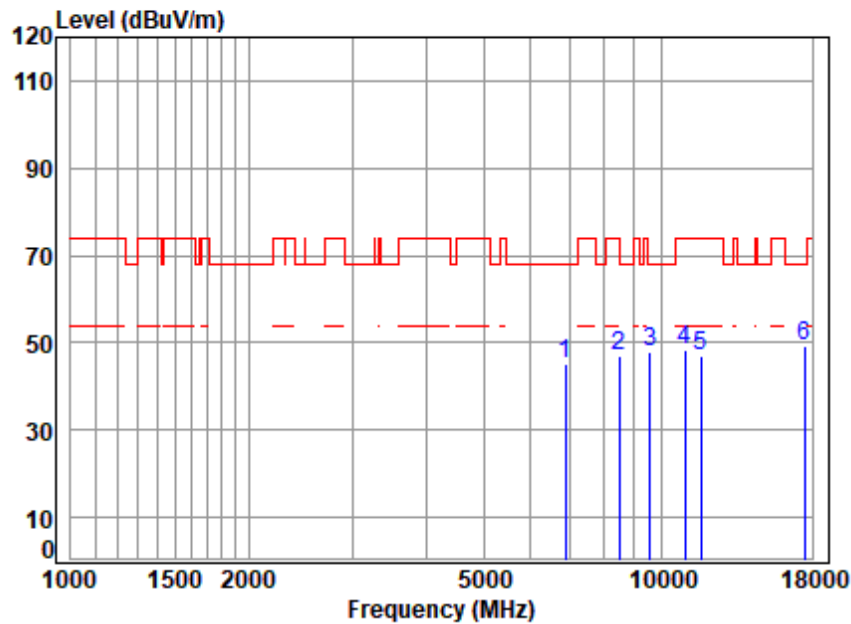
Mode : 5825 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6770.297	11.38	35.78	56.75	54.77	45.18	68.20 -23.02 peak
2	8350.908	11.69	38.70	55.58	52.41	47.22	74.00 -26.78 peak
3	9709.634	12.74	38.68	54.36	50.15	47.21	68.20 -20.99 peak
4	10994.380	14.16	39.39	53.50	47.76	47.81	74.00 -26.19 peak
5	11650.000	14.69	39.55	53.69	46.74	47.29	74.00 -26.71 peak
6	pp17475.000	18.35	40.78	54.40	44.61	49.34	68.20 -18.86 peak



Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 TX RSE

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6881.537	11.37	36.13	56.72	54.58	45.36	68.20 -22.84 peak
2	8496.769	12.29	38.31	55.45	51.82	46.97	74.00 -27.03 peak
3	9581.912	12.45	38.80	54.48	50.93	47.70	68.20 -20.50 peak
4	10972.000	14.11	39.37	53.52	48.29	48.25	74.00 -25.75 peak
5	11650.000	14.69	39.55	53.69	46.40	46.95	74.00 -27.05 peak
6	pp17475.000	18.35	40.78	54.40	44.34	49.07	68.20 -19.13 peak



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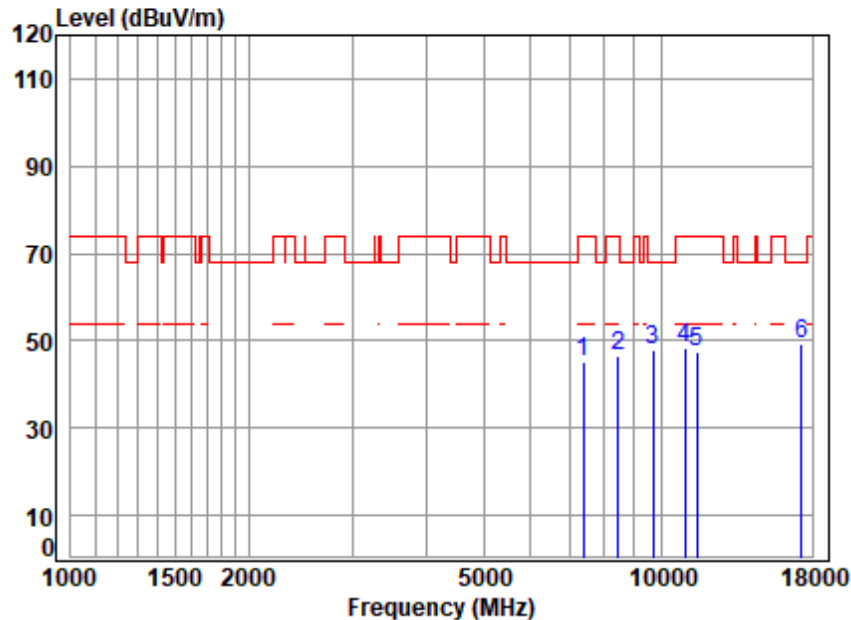
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5755 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7367.558	11.50	36.76	56.41	53.13	44.98	74.00	-29.02 peak
2	8462.222	12.05	38.38	55.48	51.64	46.59	74.00	-27.41 peak
3	9699.749	12.70	38.70	54.37	51.08	48.11	68.20	-20.09 peak
4	10972.000	14.11	39.37	53.52	48.34	48.30	74.00	-25.70 peak
5	11510.000	15.01	39.60	53.65	46.48	47.44	74.00	-26.56 peak
6	pp17265.000	17.83	40.10	54.35	45.78	49.36	68.20	-18.84 peak



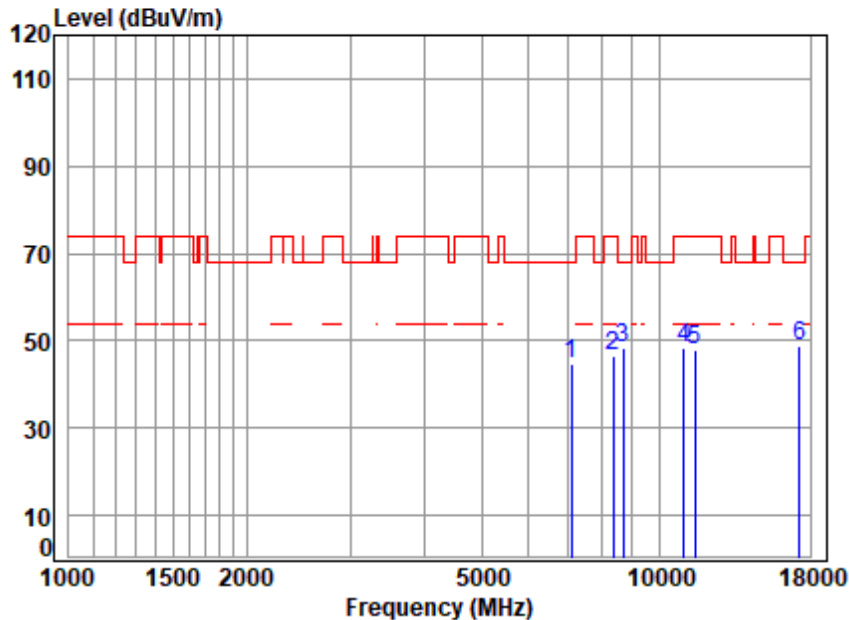
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5755 TX RSE

: 5GWIFI MIMO 11AC40

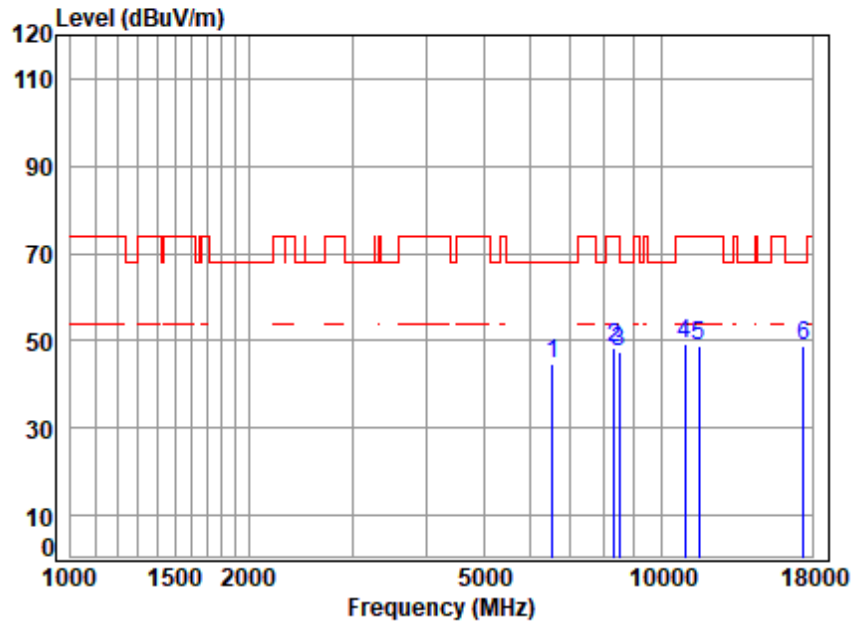
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7102.293	11.98	36.40	56.62	53.08	44.84	68.20 -23.36 peak
2	8342.406	11.70	38.58	55.59	51.70	46.39	74.00 -27.61 peak
3	8689.318	12.08	38.56	55.28	53.00	48.36	68.20 -19.84 peak
4	11005.580	14.20	39.41	53.50	48.42	48.53	74.00 -25.47 peak
5	11510.000	15.01	39.60	53.65	47.05	48.01	74.00 -25.99 peak
6	pp17265.000	17.83	40.10	54.35	45.39	48.97	68.20 -19.23 peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5795 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	6546.511	11.64	34.99	56.79	54.89	44.73	68.20 -23.47 peak
2	8325.429	11.73	38.31	55.61	54.16	48.59	74.00 -25.41 peak
3	8496.769	12.29	38.31	55.45	52.10	47.25	74.00 -26.75 peak
4	10972.000	14.11	39.37	53.52	49.26	49.22	74.00 -24.78 peak
5	11590.000	14.70	39.60	53.68	48.29	48.91	74.00 -25.09 peak
6	pp17385.000	18.09	40.37	54.38	44.88	48.96	68.20 -19.24 peak



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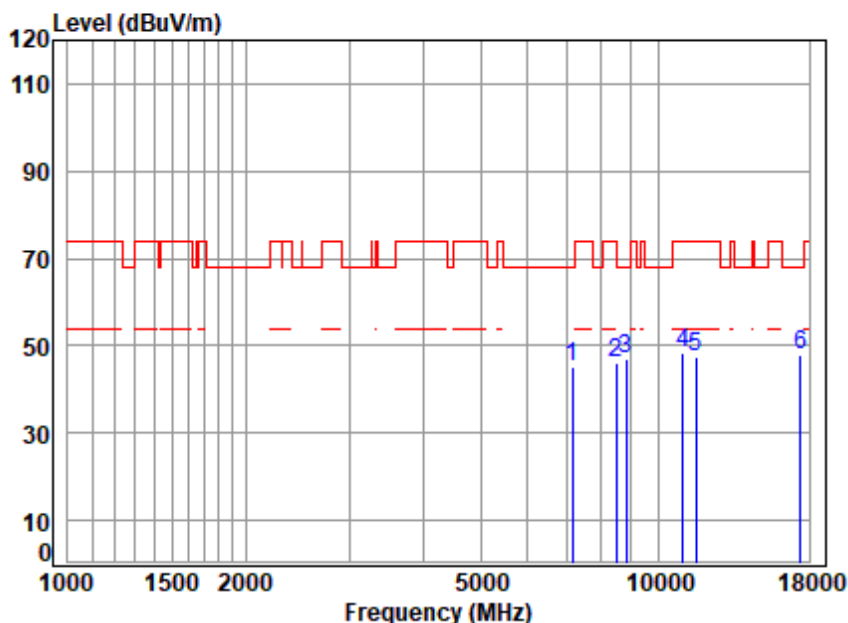
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

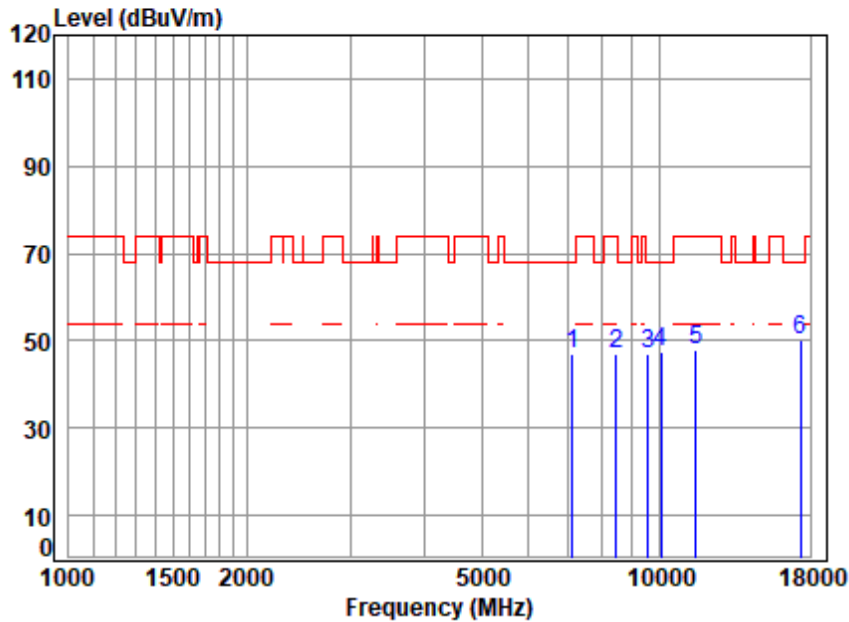
Job No : 00767WM

Mode : 5795 TX RSE

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7160.403	11.71	36.52	56.57	53.48	45.14	68.20 -23.06 peak
2	8479.478	12.17	38.34	55.47	50.94	45.98	74.00 -28.02 peak
3	8823.098	12.24	38.50	55.16	51.57	47.15	68.20 -21.05 peak
4	11005.580	14.20	39.41	53.50	48.23	48.34	74.00 -25.66 peak
5	11590.000	14.70	39.60	53.68	46.74	47.36	74.00 -26.64 peak
6	pp17385.000	18.09	40.37	54.38	43.88	47.96	68.20 -20.24 peak

Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5775 TX RSE

: 5GWIFI MIMO 11AC80

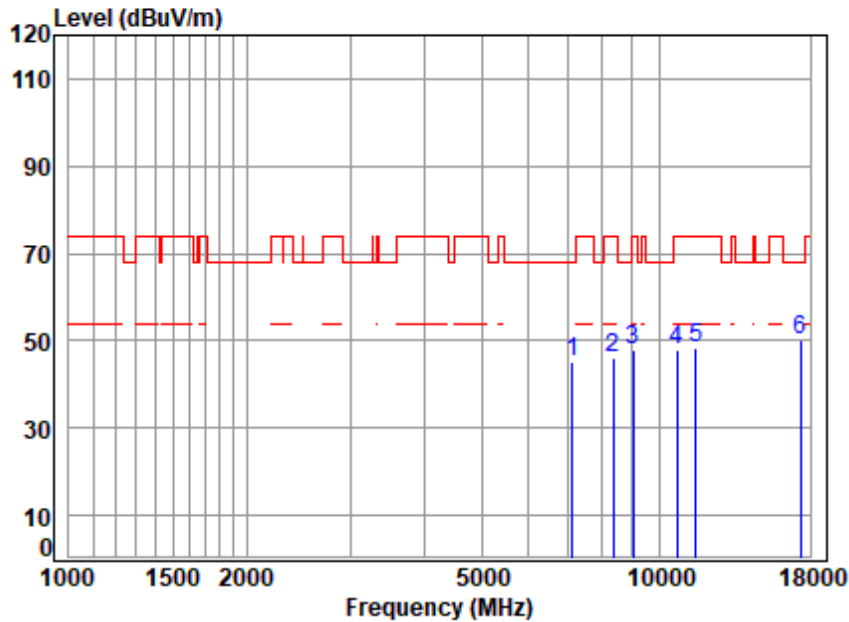
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7131.289	11.84	36.46	56.59	55.30	47.01	68.20 -21.19 peak
2	8445.000	11.94	38.42	55.50	51.96	46.82	74.00 -27.18 peak
3	9581.912	12.45	38.80	54.48	50.44	47.21	68.20 -20.99 peak
4	10082.540	13.22	39.07	54.05	49.36	47.60	68.20 -20.60 peak
5	11550.000	14.85	39.60	53.67	46.97	47.75	74.00 -26.25 peak
6	pp17325.000	17.92	40.25	54.36	46.44	50.25	68.20 -17.95 peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5775 TX RSE

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7116.776	11.91	36.43	56.61	53.60	45.33	68.20 -22.87 peak
2	8342.406	11.70	38.58	55.59	51.47	46.16	74.00 -27.84 peak
3	9023.043	12.14	38.60	54.98	52.22	47.98	74.00 -26.02 peak
4	10728.870	13.94	39.37	53.66	48.45	48.10	74.00 -25.90 peak
5	11550.000	14.85	39.60	53.67	47.50	48.28	74.00 -25.72 peak
6	pp17325.000	17.92	40.25	54.36	46.32	50.13	68.20 -18.07 peak



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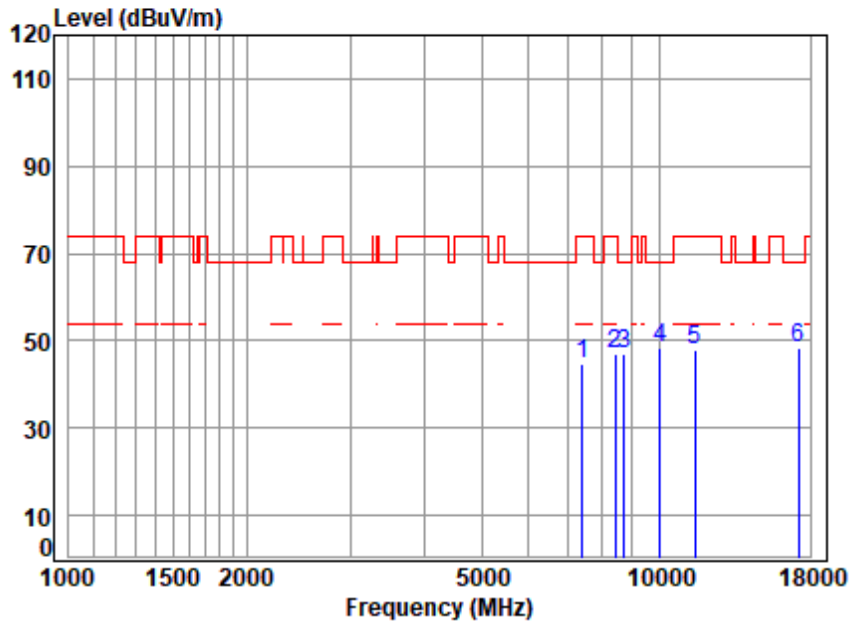
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Test Mode: 12; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7412.722	11.47	36.73	56.37	52.83	44.66	74.00	-29.34 peak
2	8427.813	11.82	38.49	55.51	52.34	47.14	74.00	-26.86 peak
3	8724.793	12.13	38.55	55.25	51.65	47.08	68.20	-21.12 peak
4	10041.550	13.12	38.98	54.08	50.31	48.33	68.20	-19.87 peak
5	11490.000	14.97	39.61	53.65	47.02	47.95	74.00	-26.05 peak
6	pp17235.000	17.83	40.01	54.35	45.01	48.50	68.20	-19.70 peak



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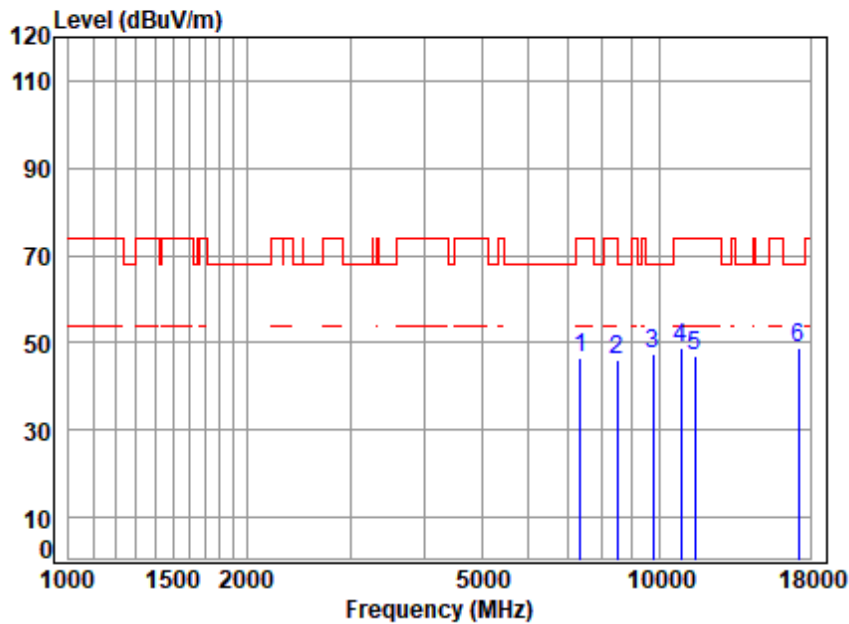
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Test Mode: 12; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7345.079	11.51	36.79	56.42	54.46	46.34	74.00	-27.66 peak
2	8496.769	12.29	38.31	55.45	51.14	46.29	74.00	-27.71 peak
3	9769.155	12.97	38.60	54.31	50.23	47.49	68.20	-20.71 peak
4	10882.960	13.91	39.30	53.57	49.33	48.97	74.00	-25.03 peak
5	11490.000	14.97	39.61	53.65	46.26	47.19	74.00	-26.81 peak
6	pp17235.000	17.83	40.01	54.35	45.19	48.68	68.20	-19.52 peak



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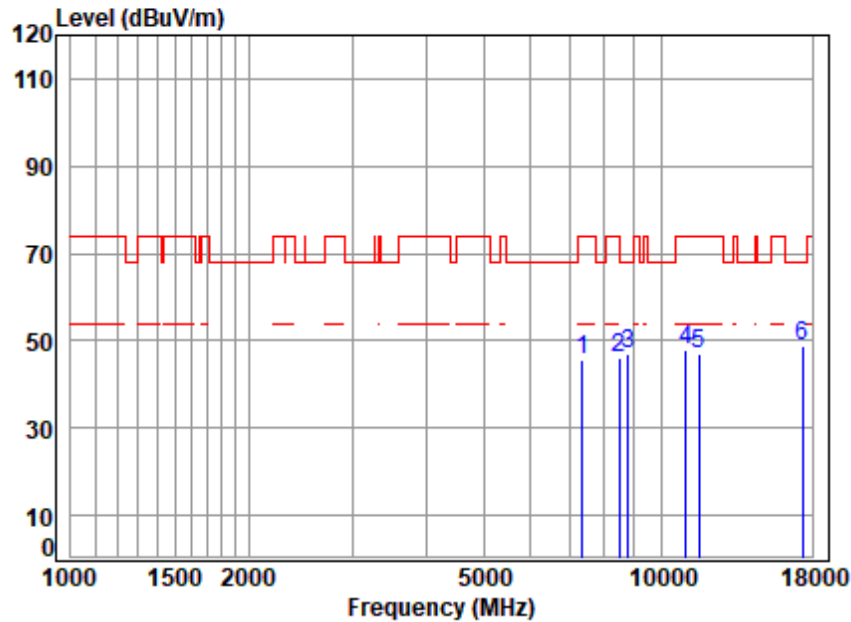
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	53.74	45.61	74.00	-28.39 peak
2	8479.478	12.17	38.34	55.47	50.95	45.99	74.00	-28.01 peak
3	8787.224	12.23	38.50	55.19	51.59	47.13	68.20	-21.07 peak
4	11005.580	14.20	39.41	53.50	47.76	47.87	74.00	-26.13 peak
5	11570.000	14.78	39.60	53.67	46.44	47.15	74.00	-26.85 peak
6	pp17355.000	18.00	40.31	54.37	45.10	49.04	68.20	-19.16 peak



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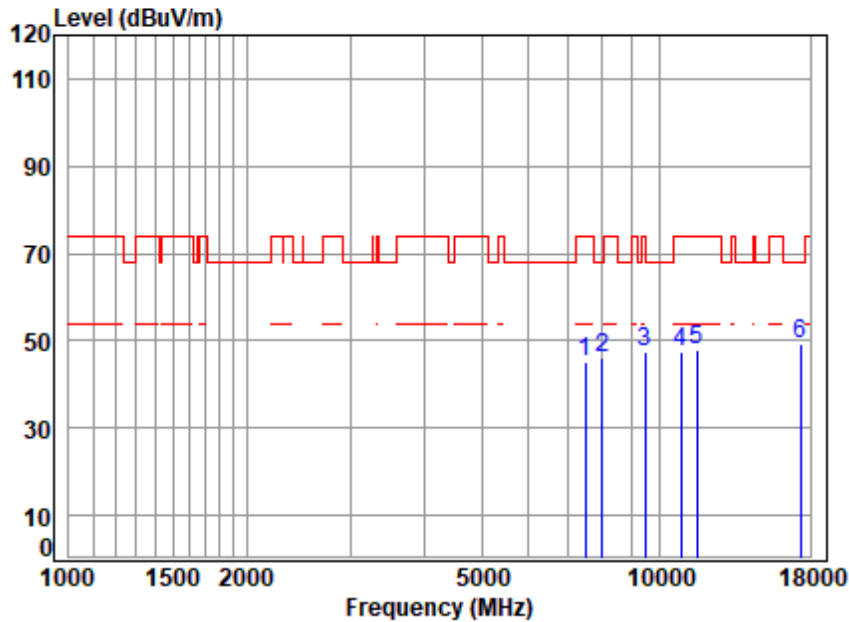
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5785 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	7496.243	11.24	36.80	56.30	53.33	45.07	74.00 -28.93 peak
2	8001.191	11.56	37.80	55.90	52.75	46.21	68.20 -21.99 peak
3	9446.244	12.42	38.80	54.60	50.80	47.42	74.00 -26.58 peak
4	10894.050	13.94	39.30	53.56	47.94	47.62	74.00 -26.38 peak
5	11570.000	14.78	39.60	53.67	46.99	47.70	74.00 -26.30 peak
6	pp17355.000	18.00	40.31	54.37	45.22	49.16	68.20 -19.04 peak



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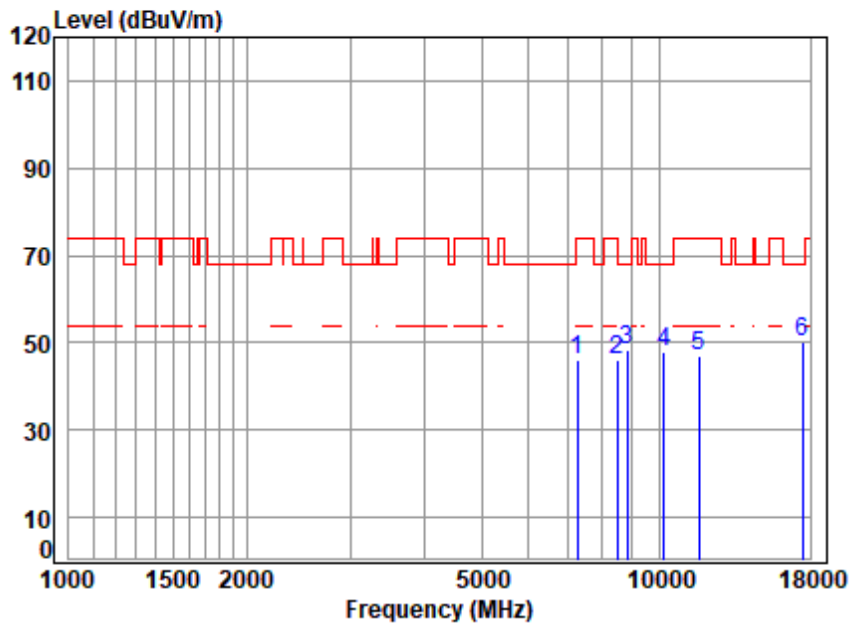
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Test Mode: 12; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	54.32	45.99	74.00	-28.01 peak
2	8488.119	12.23	38.32	55.46	51.21	46.30	74.00	-27.70 peak
3	8832.090	12.24	38.50	55.15	52.95	48.54	68.20	-19.66 peak
4	10196.150	13.10	39.10	53.98	49.86	48.08	68.20	-20.12 peak
5	11650.000	14.69	39.55	53.69	46.27	46.82	74.00	-27.18 peak
6	pp17475.000	18.35	40.78	54.40	45.68	50.41	68.20	-17.79 peak



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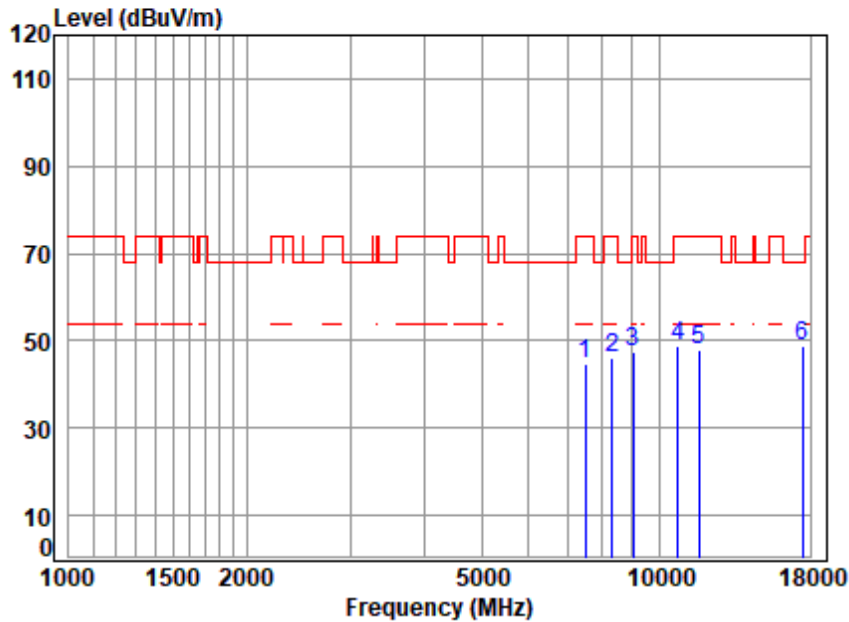
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 TX RSE

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7496.243	11.24	36.80	56.30	53.14	44.88	74.00	-29.12 peak
2	8333.913	11.72	38.44	55.60	51.66	46.22	74.00	-27.78 peak
3	9023.043	12.14	38.60	54.98	51.88	47.64	74.00	-26.36 peak
4	10750.750	13.86	39.35	53.65	49.11	48.67	74.00	-25.33 peak
5	11650.000	14.69	39.55	53.69	47.52	48.07	74.00	-25.93 peak
6	pp17475.000	18.35	40.78	54.40	44.25	48.98	68.20	-19.22 peak



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.10 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar



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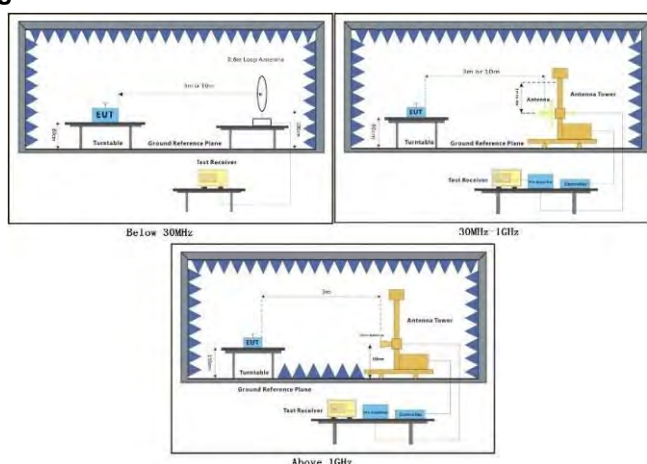
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7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

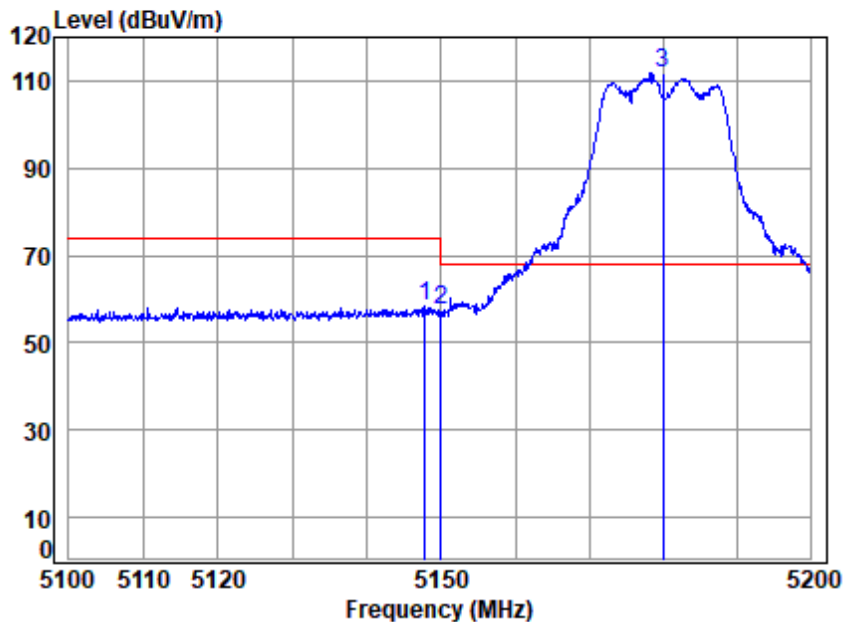
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - j. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge
: 5GWIFI MIMO 11A

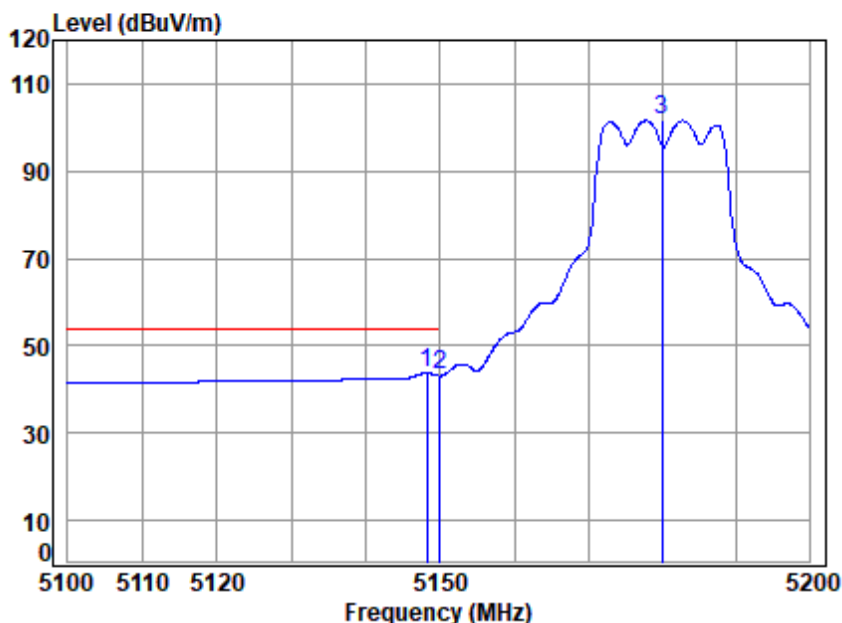
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.758	10.13	32.40	30.84	46.60	58.29	74.00 -15.71 peak
2	5149.980	10.14	32.40	30.84	46.00	57.70	74.00 -16.30 peak
3	pp 5180.000	10.25	32.46	30.83	99.99	111.87	68.20 43.67 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11A

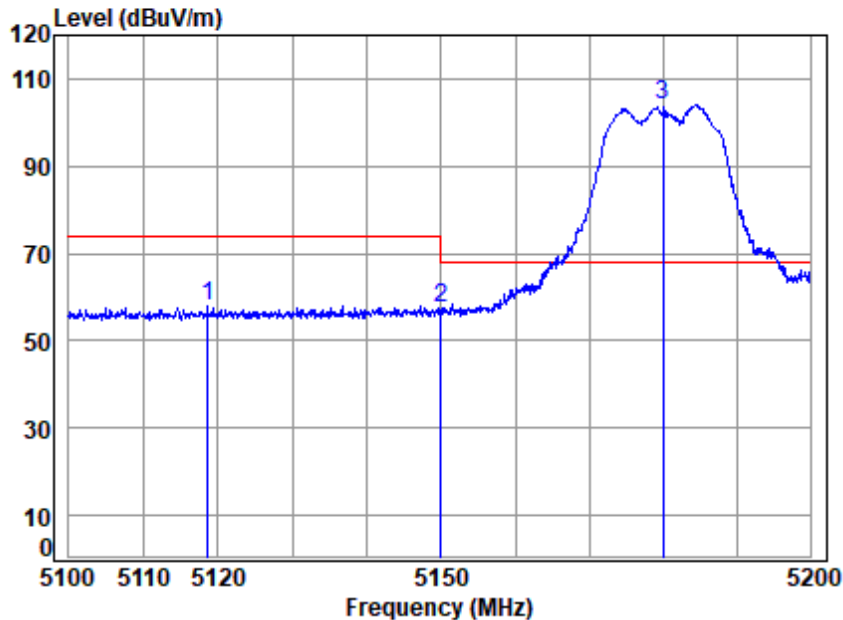
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.158	10.13	32.40	30.84	32.02	43.71	54.00	-10.29	Average
2	5149.980	10.14	32.40	30.84	31.48	43.18	54.00	-10.82	Average
3	5180.000	10.25	32.46	30.83	89.71	101.59	-----	-----	Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11A

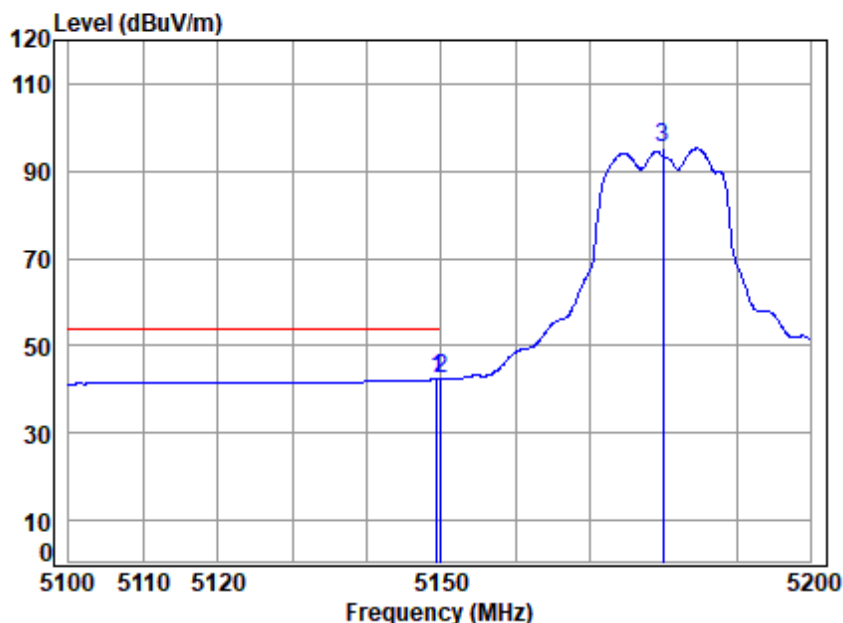
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5118.553	10.02	32.34	30.85	46.37	57.88	74.00	-16.12 peak
2	5149.980	10.14	32.40	30.84	45.59	57.29	74.00	-16.71 peak
3 pp	5180.000	10.25	32.46	30.83	92.15	104.03	68.20	35.83 peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11A

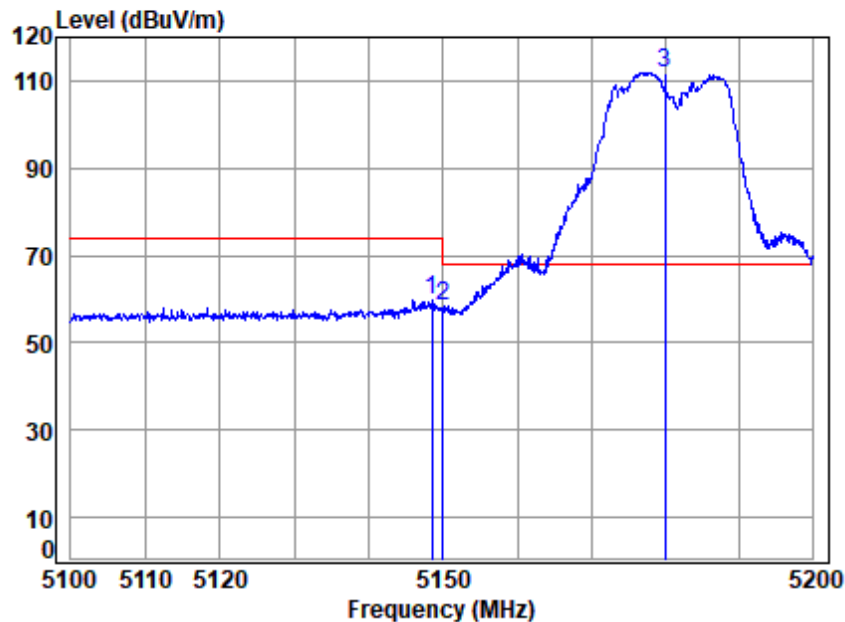
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	30.64	42.34	54.00	-11.66	Average
2 pp	5149.980	10.14	32.40	30.84	30.65	42.35	54.00	-11.65	Average
3	5180.000	10.25	32.46	30.83	83.28	95.16	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AC20

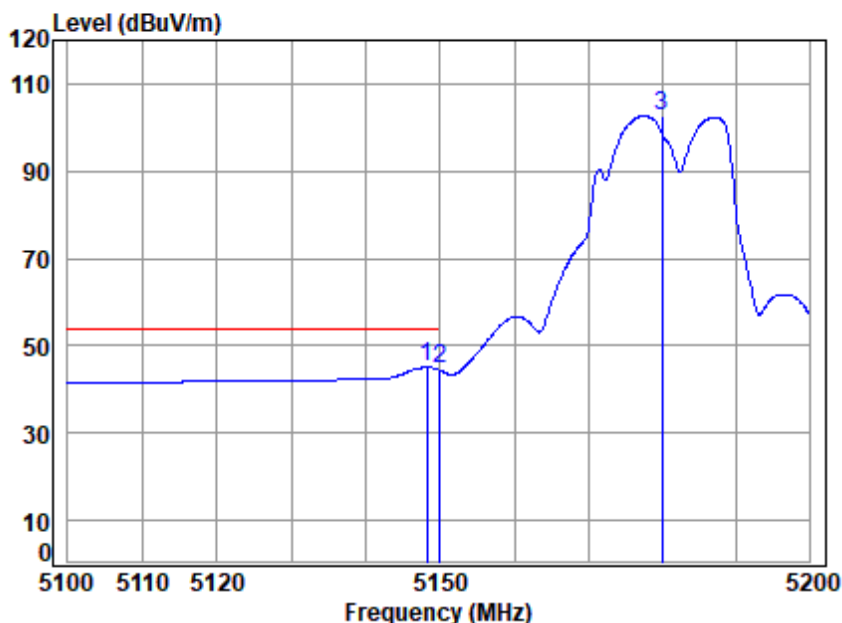
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.458	10.13	32.40	30.84	48.10	59.79	74.00 -14.21 peak
2	5149.980	10.14	32.40	30.84	46.50	58.20	74.00 -15.80 peak
3	pp 5180.000	10.25	32.46	30.83	100.07	111.95	68.20 43.75 peak



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.158	10.13	32.40	30.84	33.37	45.06	54.00	-8.94	Average
2	5149.980	10.14	32.40	30.84	32.88	44.58	54.00	-9.42	Average
3	5180.000	10.25	32.46	30.83	90.71	102.59	-----	-----	Average



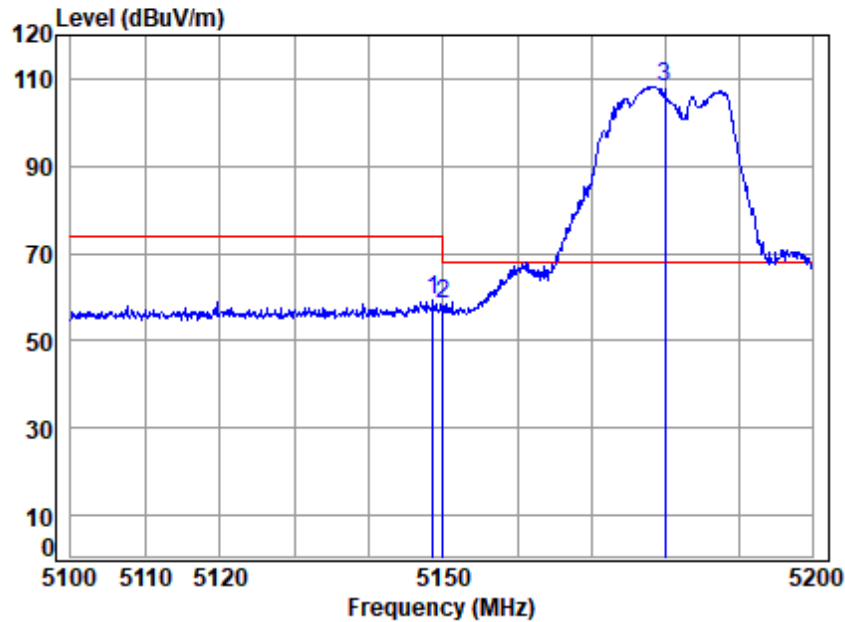
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AC20

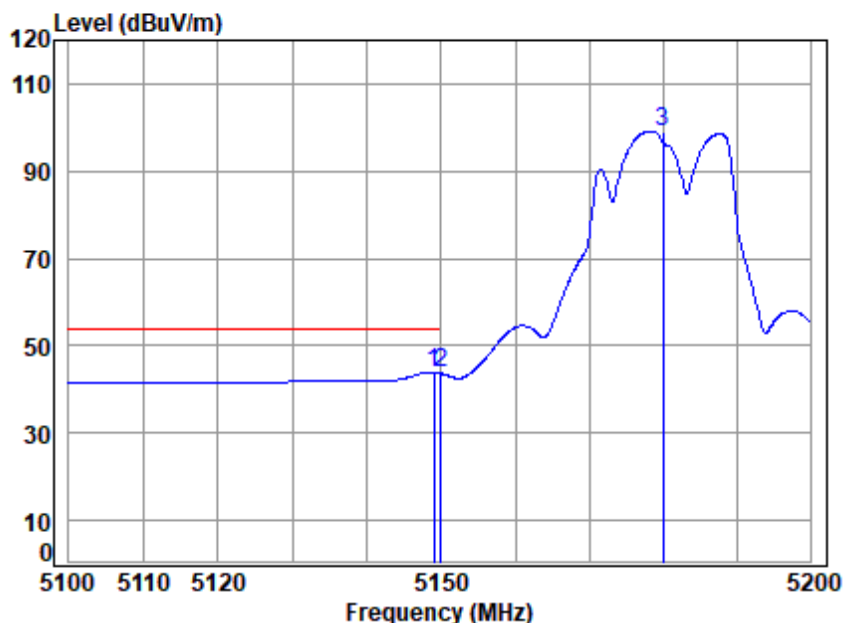
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.657	10.13	32.40	30.84	47.70	59.39	74.00	-14.61	peak
2	5149.980	10.14	32.40	30.84	46.66	58.36	74.00	-15.64	peak
3 pp	5180.000	10.25	32.46	30.83	96.48	108.36	68.20	40.16	peak



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AC20

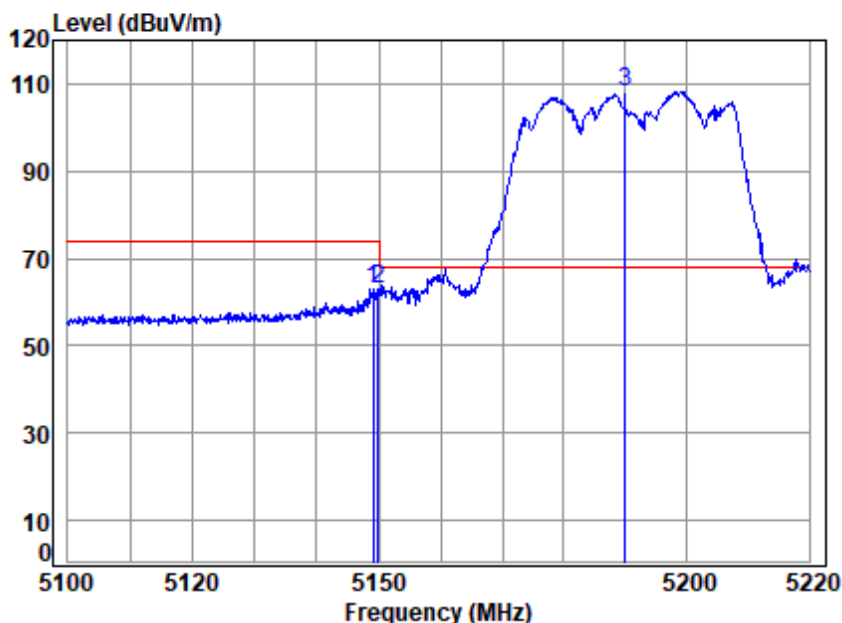
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.958	10.14	32.40	30.84	32.27	43.97	54.00	-10.03	Average
2	5149.980	10.14	32.40	30.84	32.13	43.83	54.00	-10.17	Average
3	5180.000	10.25	32.46	30.83	87.22	99.10	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5190 Band edge

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.102	10.14	32.40	30.84	51.42	63.12	74.00	-10.88 peak
2	5149.980	10.14	32.40	30.84	51.10	62.80	74.00	-11.20 peak
3 pp	5190.000	10.29	32.48	30.82	96.28	108.23	68.20	40.03 peak



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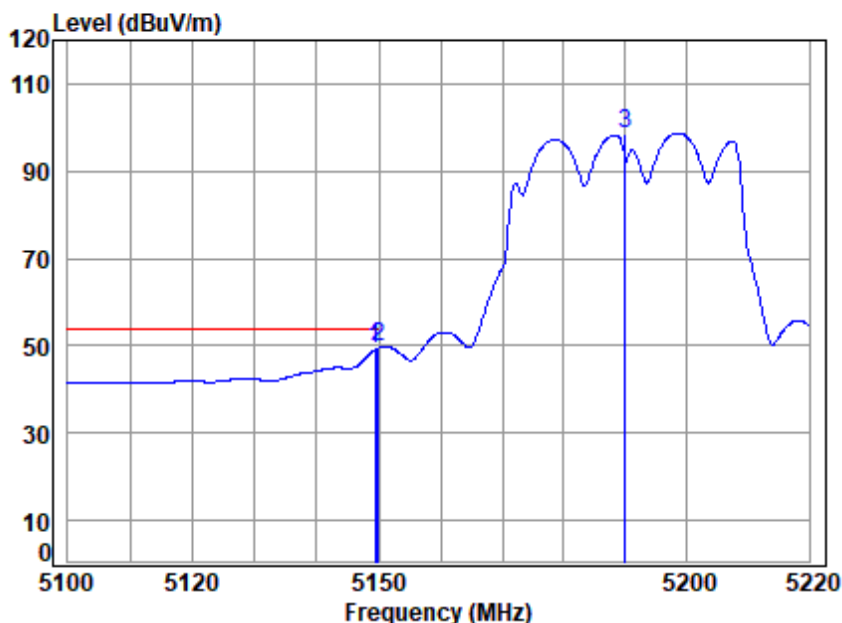
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5190 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	37.43	49.13	54.00	-4.87	Average
2 pp	5149.980	10.14	32.40	30.84	37.91	49.61	54.00	-4.39	Average
3	5190.000	10.29	32.48	30.82	86.76	98.71	-----	-----	Average



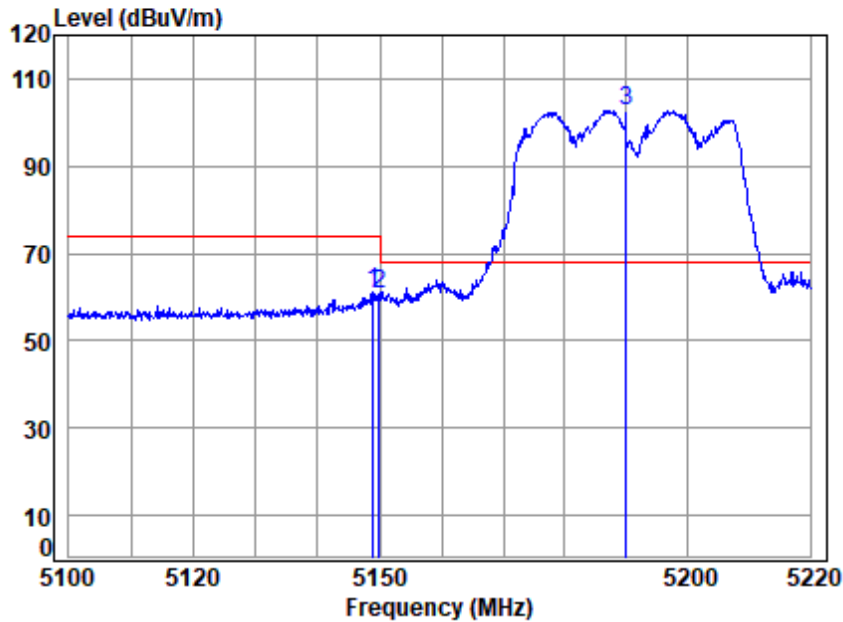
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5190 Band edge

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.982	10.14	32.40	30.84	49.61	61.31	74.00 -12.69 peak
2	5149.980	10.14	32.40	30.84	49.14	60.84	74.00 -13.16 peak
3	pp 5190.000	10.29	32.48	30.82	90.85	102.80	68.20 34.60 peak



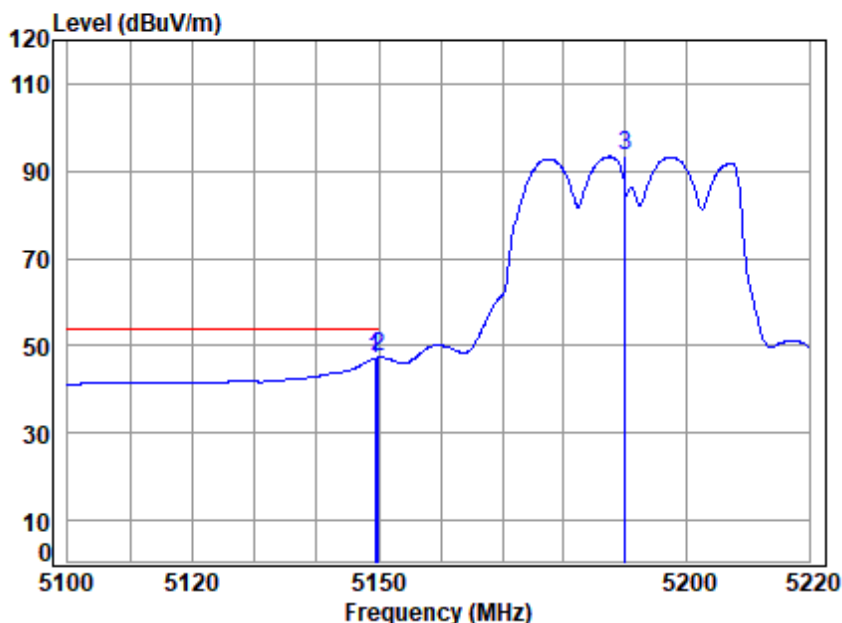
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5190 Band edge

: 5GWIFI MIMO 11AC40

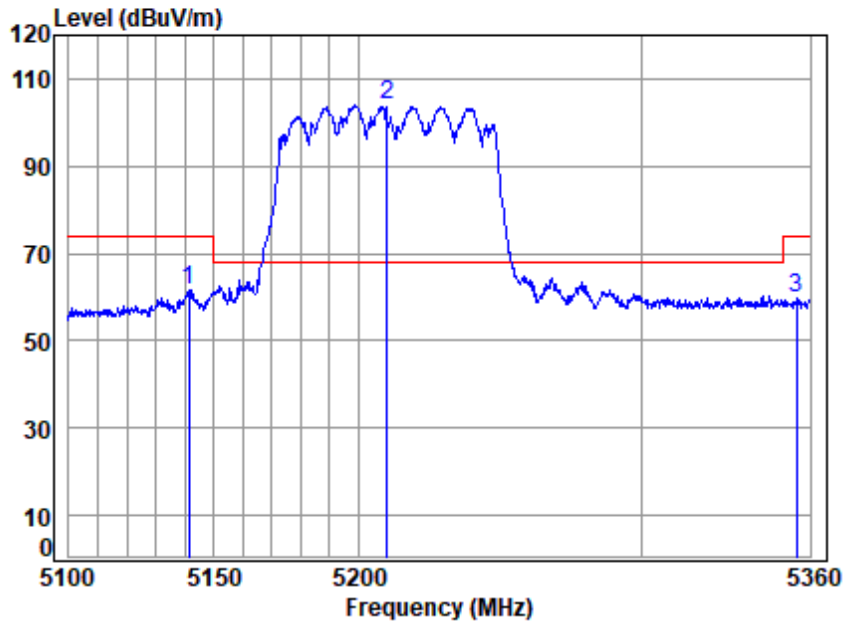
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	35.45	47.15	54.00	-6.85	Average
2 pp	5149.980	10.14	32.40	30.84	35.60	47.30	54.00	-6.70	Average
3	5190.000	10.29	32.48	30.82	81.37	93.32	-----	-----	Average



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

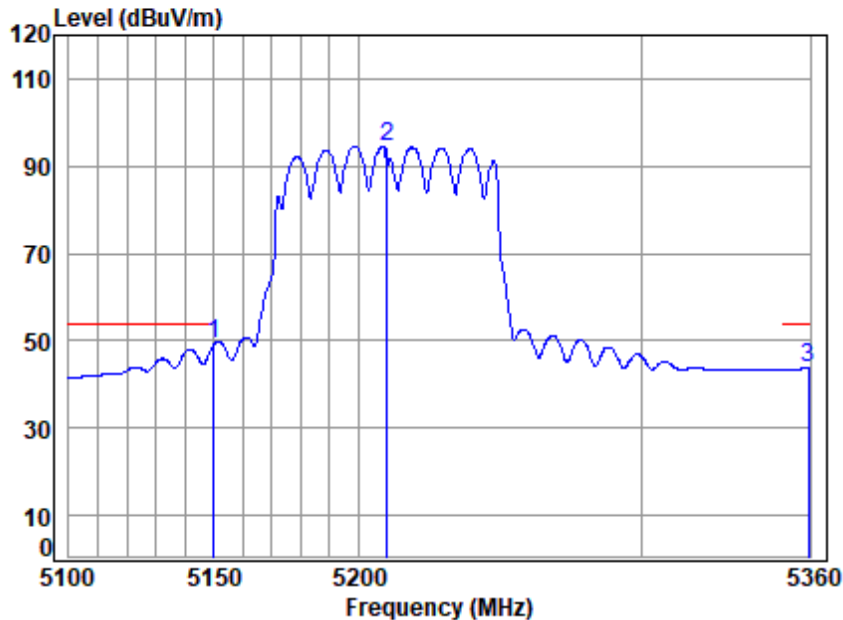
Mode : 5210 Band edge

: 5GWIFI MIMO 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.248	10.11	32.38	30.84	50.06	61.71	74.00	-12.29	peak
2 pp	5210.000	10.32	32.52	30.82	91.83	103.85	68.20	35.65	peak
3	5355.205	10.47	32.80	30.76	47.12	59.63	74.00	-14.37	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5210 Band edge

: 5GWIFI MIMO 11AC80

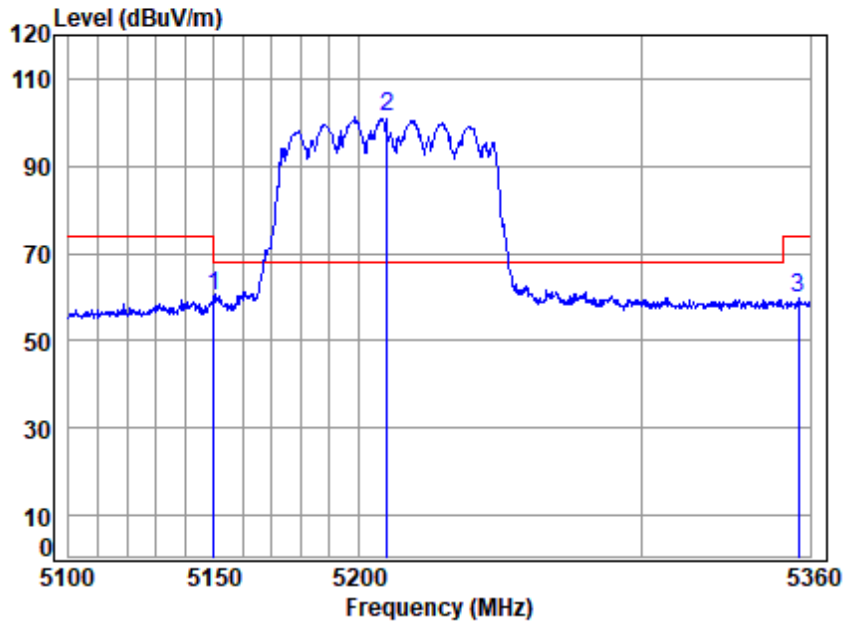
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	37.59	49.29	54.00	-4.71	Average
2	5210.000	10.32	32.52	30.82	82.61	94.63	-----	-----	Average
3	5359.467	10.48	32.80	30.76	31.08	43.60	54.00	-10.40	Average



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5210 Band edge

: 5GWIFI MIMO 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.690	10.14	32.40	30.84	48.74	60.44	74.00	-13.56	peak
2 pp	5210.000	10.32	32.52	30.82	89.15	101.17	68.20	32.97	peak
3	5355.737	10.47	32.80	30.76	47.08	59.59	74.00	-14.41	peak



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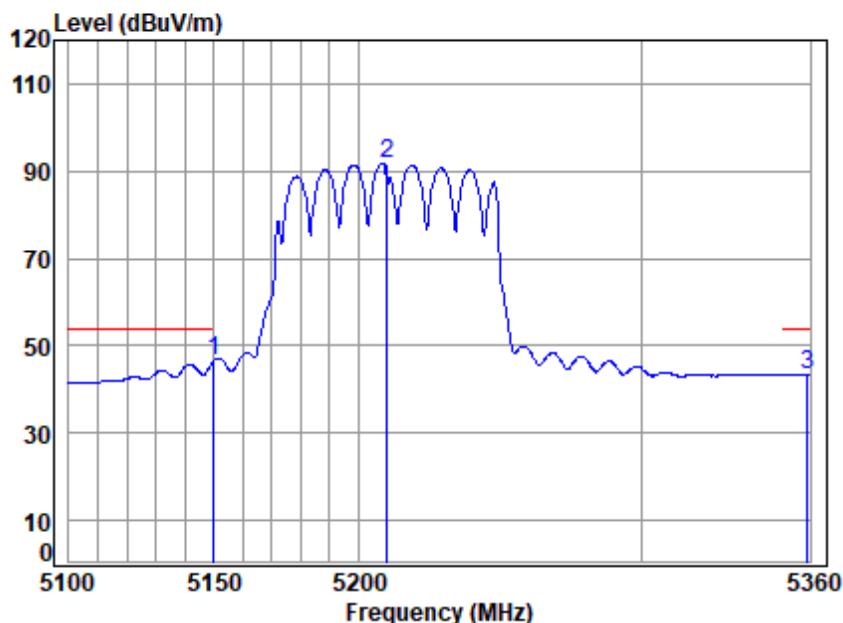
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5210 Band edge

: 5GWIFI MIMO 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.947	10.14	32.40	30.84	34.92	46.62	54.00	-7.38	Average
2	5210.000	10.32	32.52	30.82	79.75	91.77	-----	-----	Average
3	5359.201	10.48	32.80	30.76	30.90	43.42	54.00	-10.58	Average



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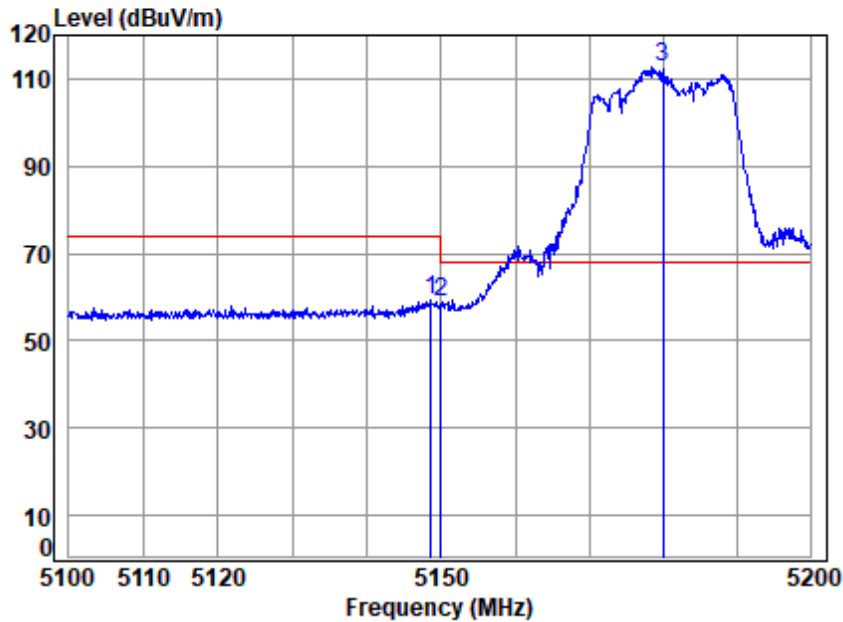
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5148.558	10.13	32.40	30.84	47.42	59.11	74.00	-14.89 peak
2 5149.980	10.14	32.40	30.84	47.37	59.07	74.00	-14.93 peak
3 pp 5180.000	10.25	32.46	30.83	100.77	112.65	68.20	44.45 peak



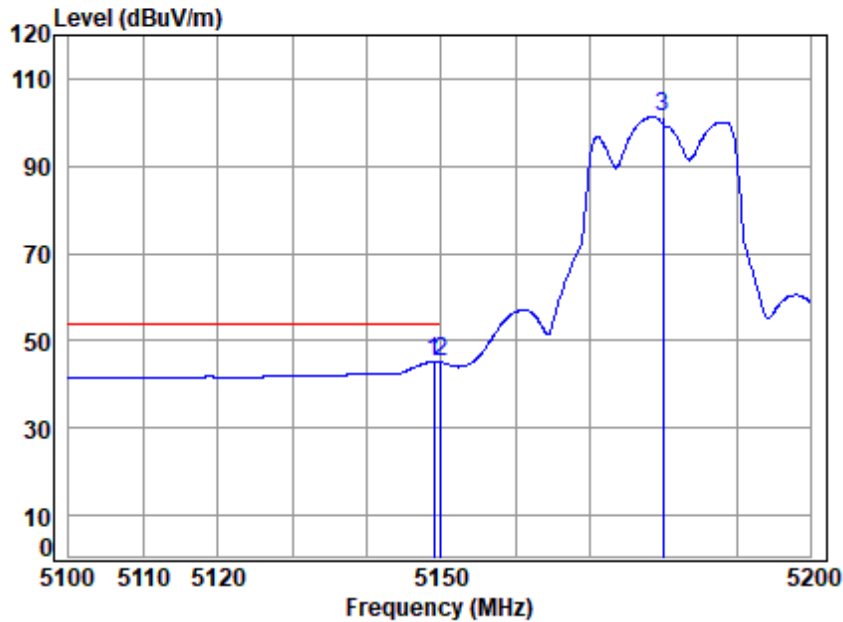
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Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

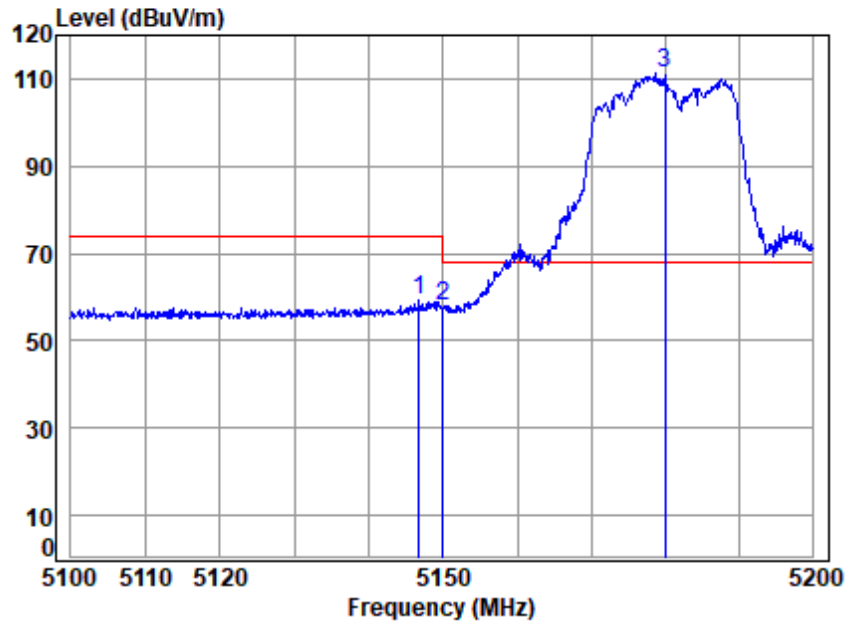
Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5149.057	10.14	32.40	30.84	33.55	45.25	54.00	-8.75	Average
2	5149.980	10.14	32.40	30.84	33.48	45.18	54.00	-8.82	Average
3	5180.000	10.25	32.46	30.83	89.33	101.21	-----	-----	Average



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.758	10.13	32.39	30.84	47.76	59.44	74.00	-14.56 peak
2	5149.980	10.14	32.40	30.84	46.47	58.17	74.00	-15.83 peak
3 pp	5180.000	10.25	32.46	30.83	99.41	111.29	68.20	43.09 peak



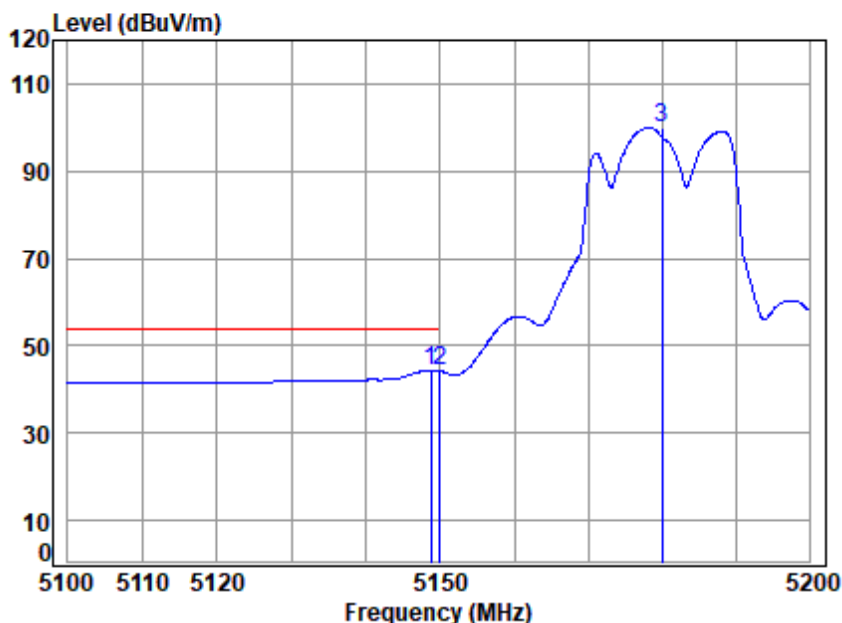
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Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.757	10.14	32.40	30.84	32.78	44.48	54.00	-9.52	Average
2	5149.980	10.14	32.40	30.84	32.66	44.36	54.00	-9.64	Average
3	5180.000	10.25	32.46	30.83	88.05	99.93	-----	-----	Average



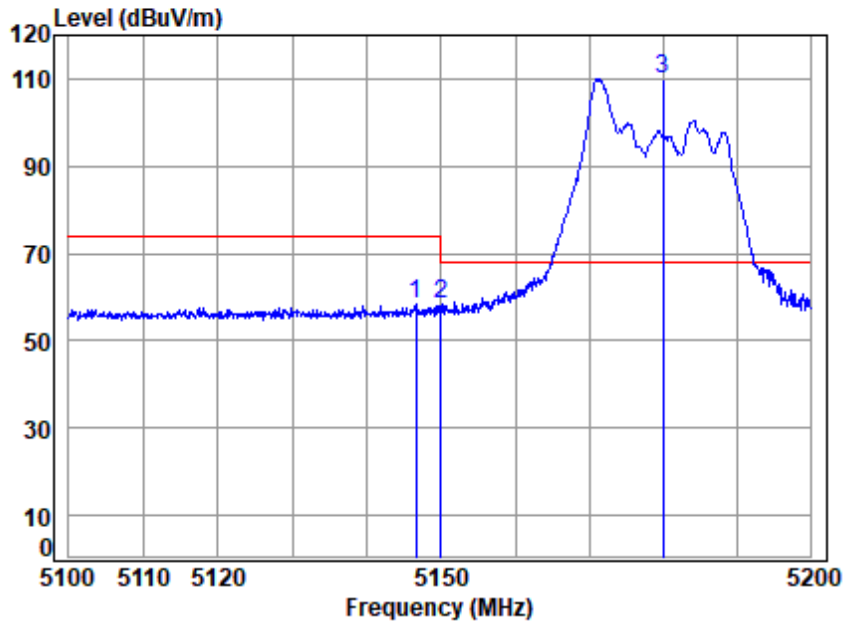
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Test Mode: 09; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

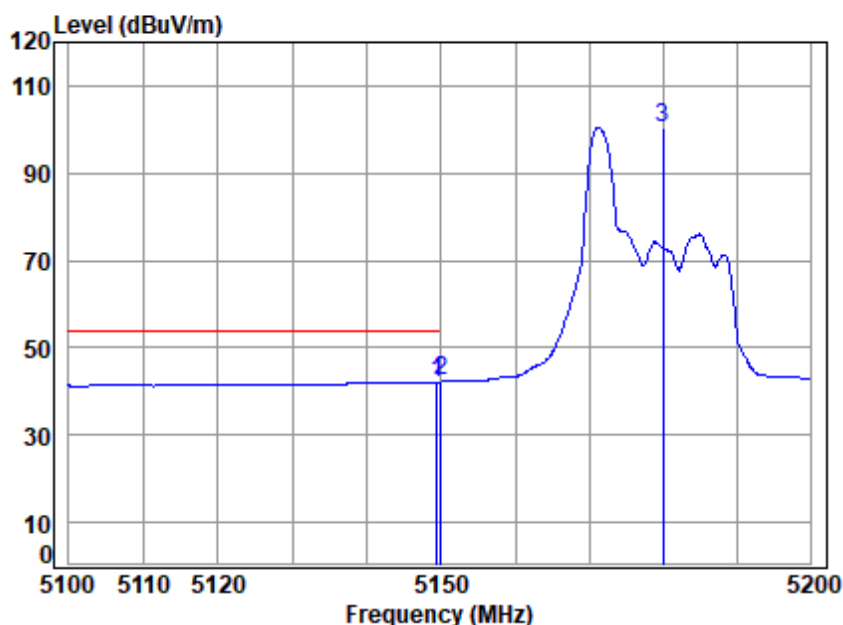
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.558	10.13	32.39	30.84	46.52	58.20	74.00	-15.80 peak
2	5149.980	10.14	32.40	30.84	46.83	58.53	74.00	-15.47 peak
3 pp	5180.000	10.25	32.46	30.83	98.00	109.88	68.20	41.68 peak



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Test Mode: 09; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.458	10.14	32.40	30.84	30.47	42.17	54.00	-11.83	Average
2 pp	5149.980	10.14	32.40	30.84	30.53	42.23	54.00	-11.77	Average
3	5180.000	10.25	32.46	30.83	88.55	100.43	-----	-----	Average



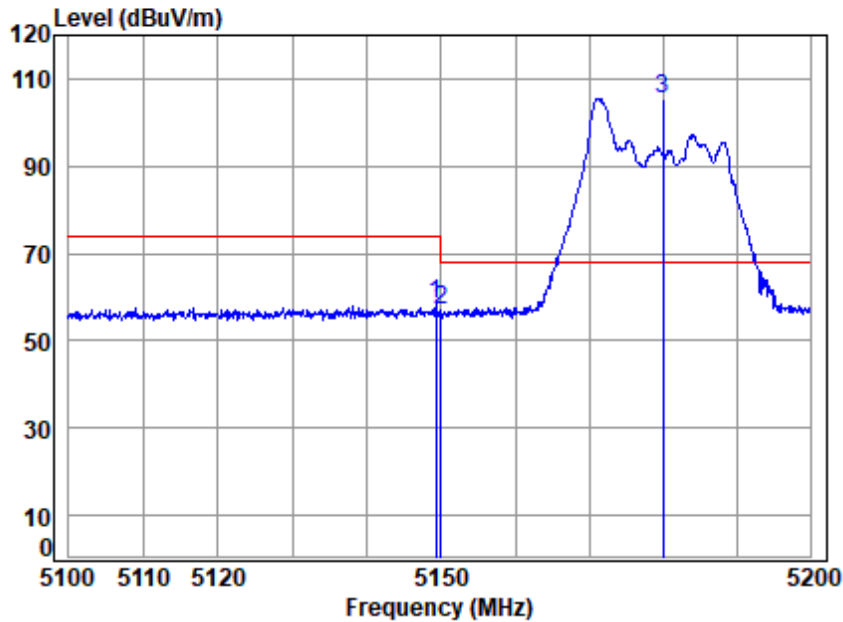
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Test Mode: 09; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

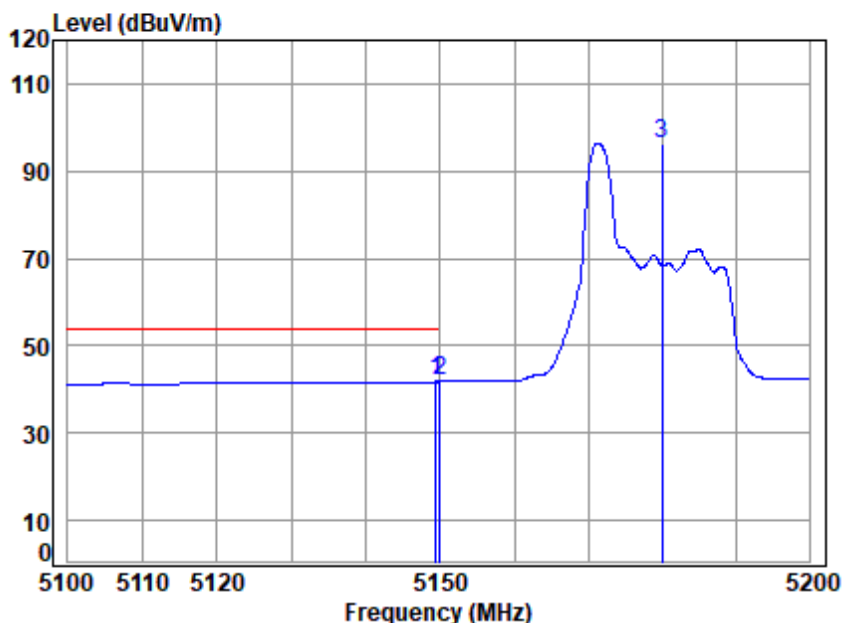
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5149.257	10.14	32.40	30.84	46.68	58.38	74.00	-15.62	peak
2 5149.980	10.14	32.40	30.84	45.36	57.06	74.00	-16.94	peak
3 pp 5180.000	10.25	32.46	30.83	93.67	105.55	68.20	37.35	peak



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Test Mode: 09; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5180 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

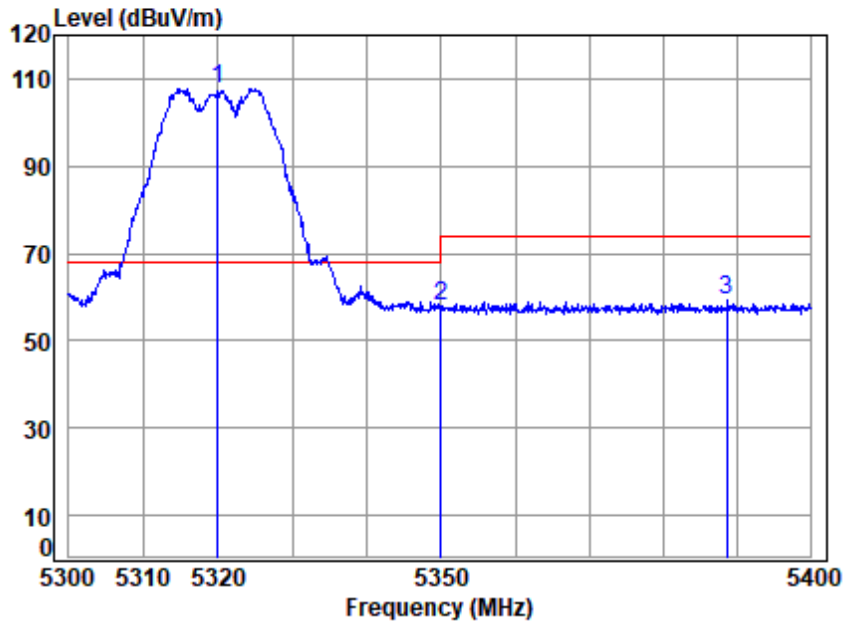
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.458	10.14	32.40	30.84	30.05	41.75	54.00	-12.25	Average
5149.980	10.14	32.40	30.84	30.05	41.75	54.00	-12.25	Average
5180.000	10.25	32.46	30.83	84.48	96.36	-----	-----	Average



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge
: 5GWIFI MIMO 11A

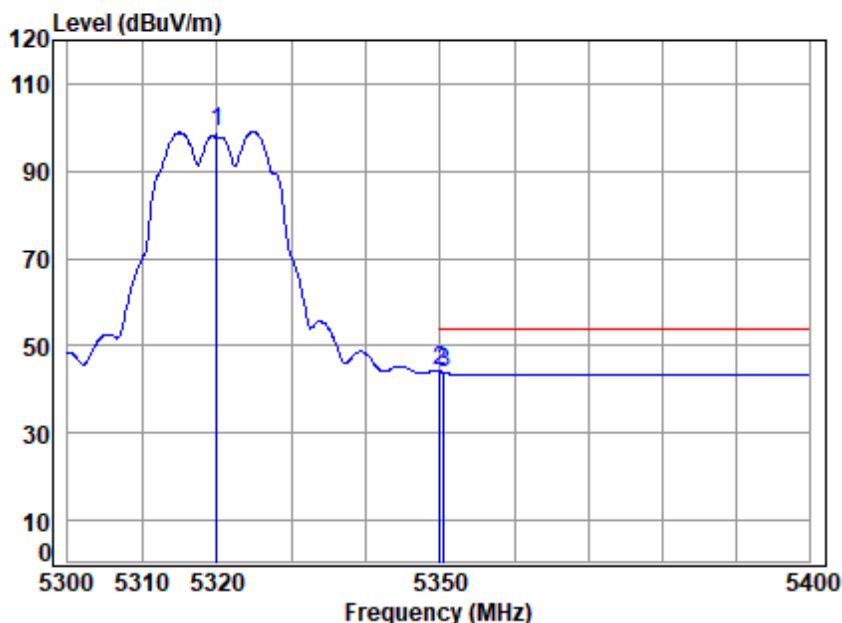
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.33	107.65	68.20	39.45	peak
2	5350.020	10.45	32.80	30.76	45.68	58.17	74.00	-15.83	peak
3	5388.707	10.58	32.80	30.74	46.68	59.32	74.00	-14.68	peak



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	86.60	98.92	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	31.64	44.13	54.00	-9.87	Average
3	5350.566	10.45	32.80	30.76	31.40	43.89	54.00	-10.11	Average



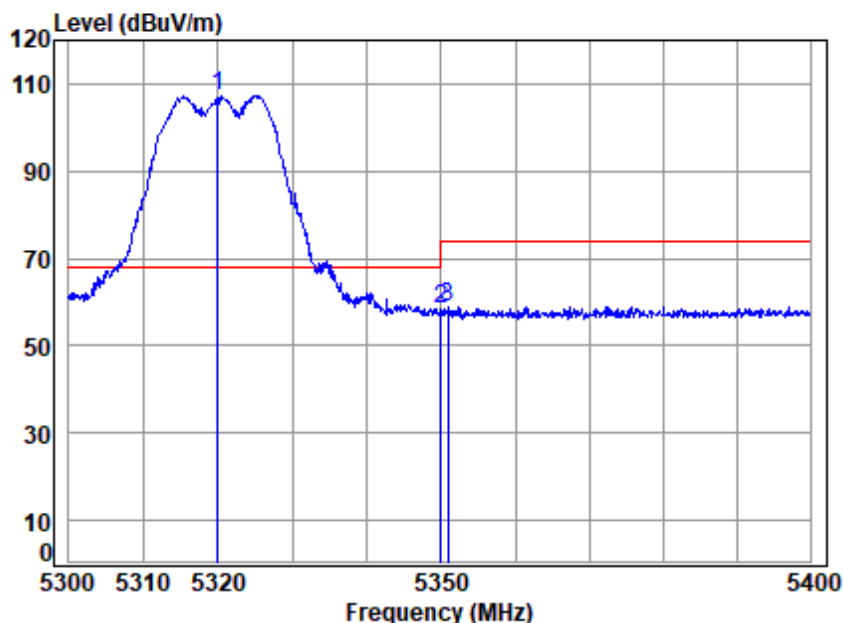
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5320.000	10.35	32.74	30.77	94.83	107.15	68.20	38.95	peak	
2 5350.020	10.45	32.80	30.76	45.99	58.48	74.00	-15.52	peak	
3 5350.866	10.45	32.80	30.76	46.55	59.04	74.00	-14.96	peak	



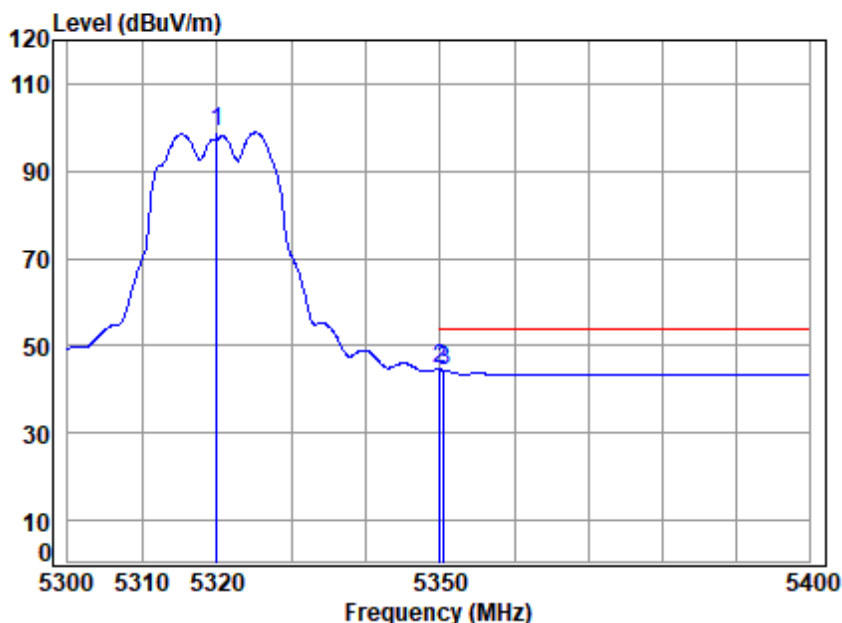
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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11A

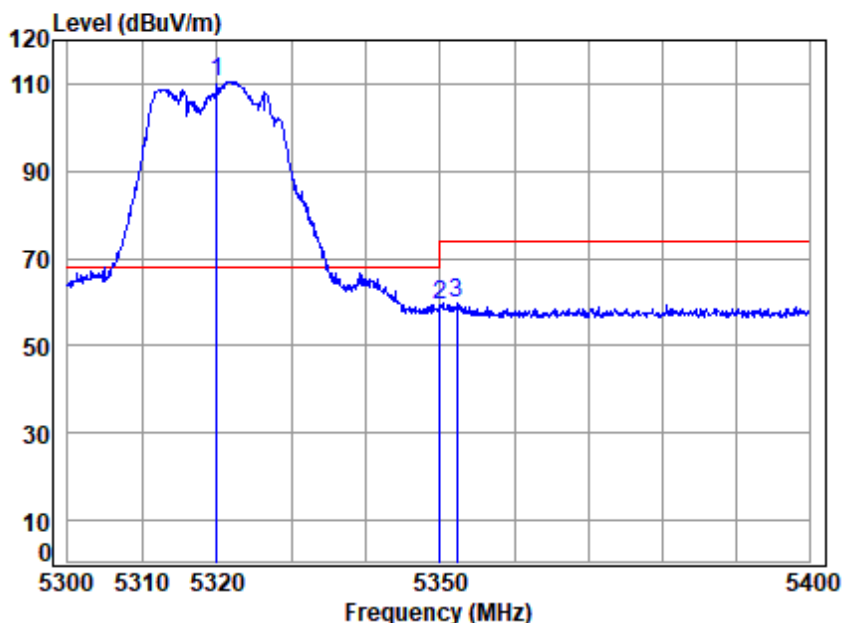
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	86.51	98.83	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	32.05	44.54	54.00	-9.46	Average
3	5350.566	10.45	32.80	30.76	31.90	44.39	54.00	-9.61	Average



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	98.15	110.47	68.20	42.27	peak
2	5350.020	10.45	32.80	30.76	47.01	59.50	74.00	-14.50	peak
3	5352.267	10.46	32.80	30.76	47.41	59.91	74.00	-14.09	peak



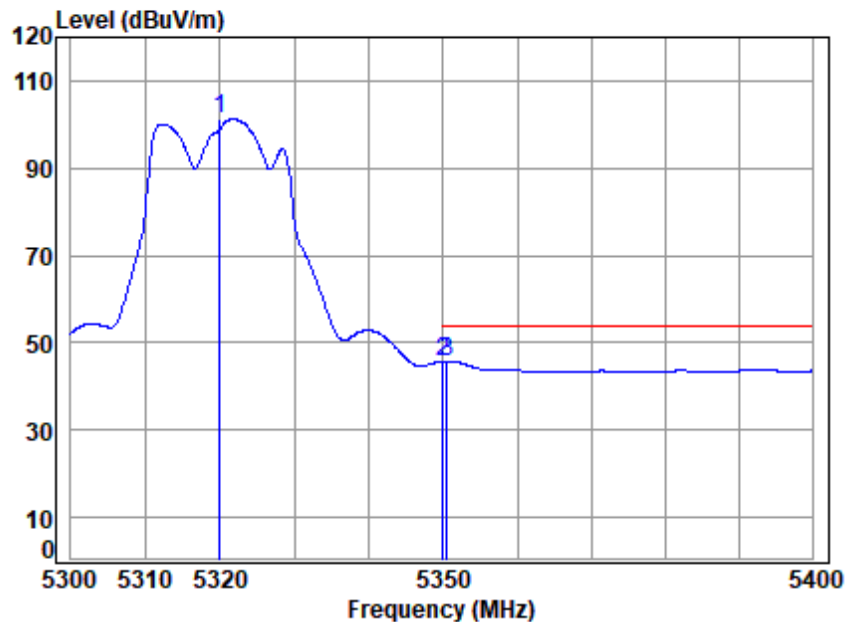
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AC20

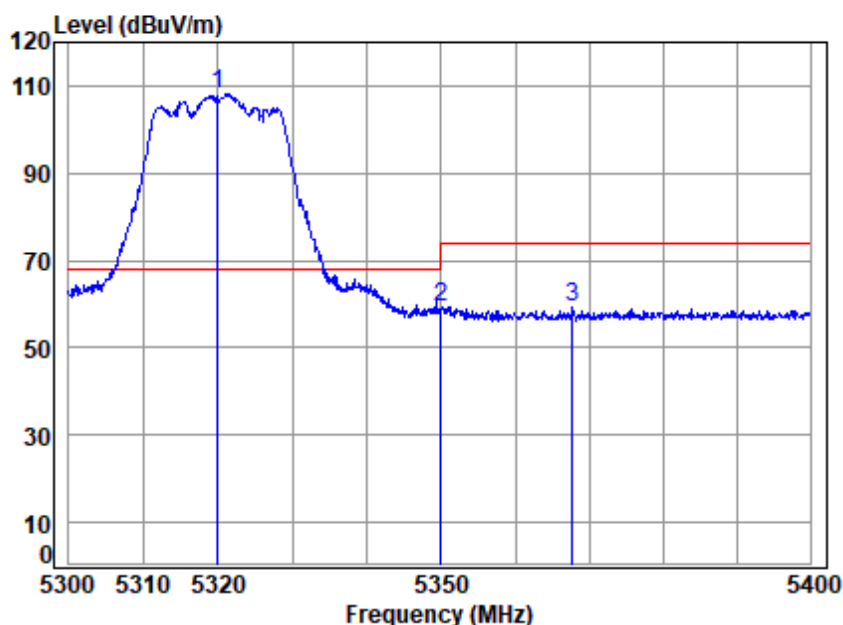
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	88.89	101.21	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	33.34	45.83	54.00	-8.17	Average
3	5350.566	10.45	32.80	30.76	33.33	45.82	54.00	-8.18	Average



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.71	108.03	68.20	39.83	peak
2	5350.020	10.45	32.80	30.76	46.93	59.42	74.00	-14.58	peak
3	5367.796	10.51	32.80	30.75	46.89	59.45	74.00	-14.55	peak



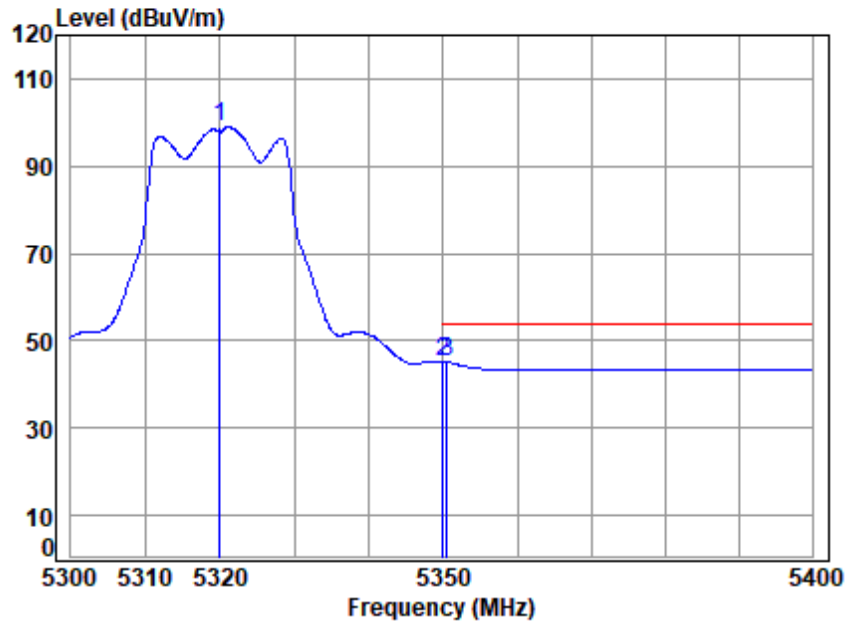
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	86.63	98.95	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	32.81	45.30	54.00	-8.70	Average
3	5350.566	10.45	32.80	30.76	32.62	45.11	54.00	-8.89	Average



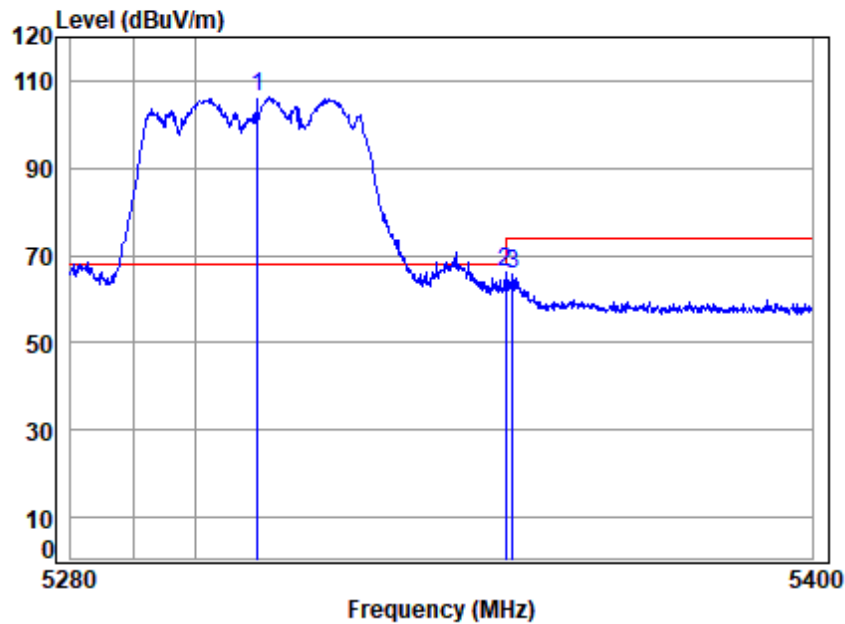
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5310 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	93.96	106.21	68.20	38.01	peak
2	5350.020	10.45	32.80	30.76	53.73	66.22	74.00	-7.78	peak
3	5351.195	10.45	32.80	30.76	53.12	65.61	74.00	-8.39	peak



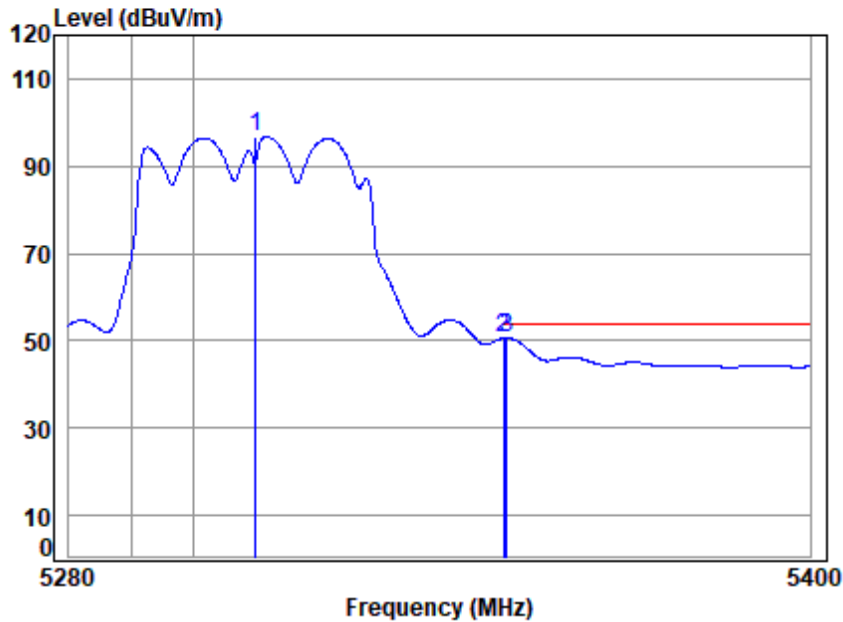
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5310 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	84.38	96.63	-----	-----	Average
2	5350.020	10.45	32.80	30.76	38.13	50.62	54.00	-3.38	Average
3 pp	5350.594	10.45	32.80	30.76	38.14	50.63	54.00	-3.37	Average



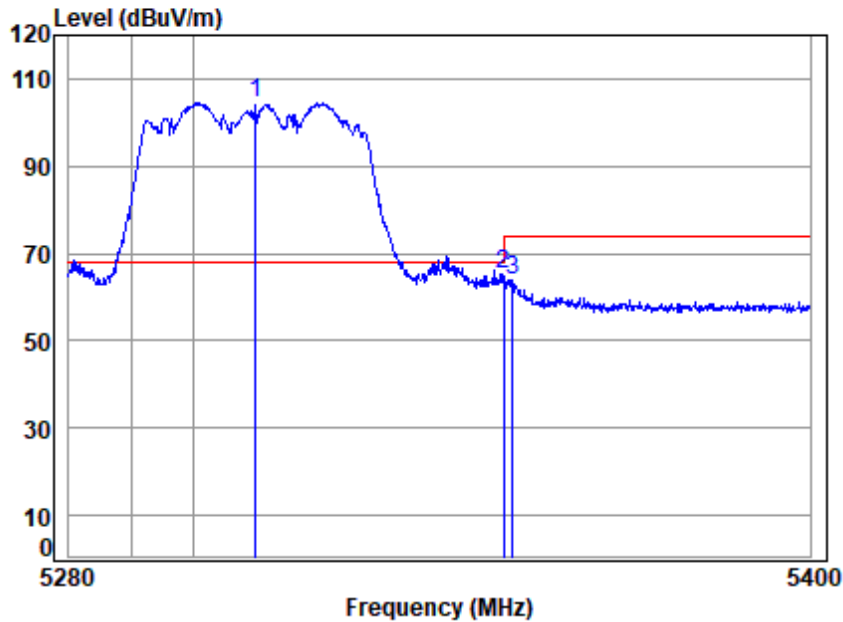
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5310 Band edge

: 5GWIFI MIMO 11AC40

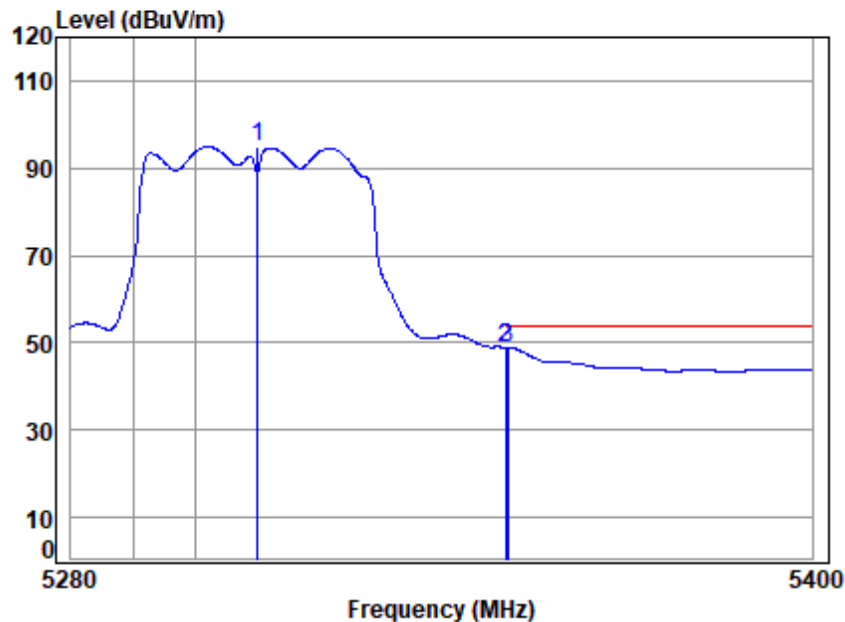
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5310.000	10.31	32.72	30.78	92.42	104.67	68.20	36.47	peak
2	5350.020	10.45	32.80	30.76	52.60	65.09	74.00	-8.91	peak
3	5351.556	10.46	32.80	30.76	51.50	64.00	74.00	-10.00	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5310 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	82.62	94.87	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	36.54	49.03	54.00	-4.97	Average
3	5350.474	10.45	32.80	30.76	36.53	49.02	54.00	-4.98	Average



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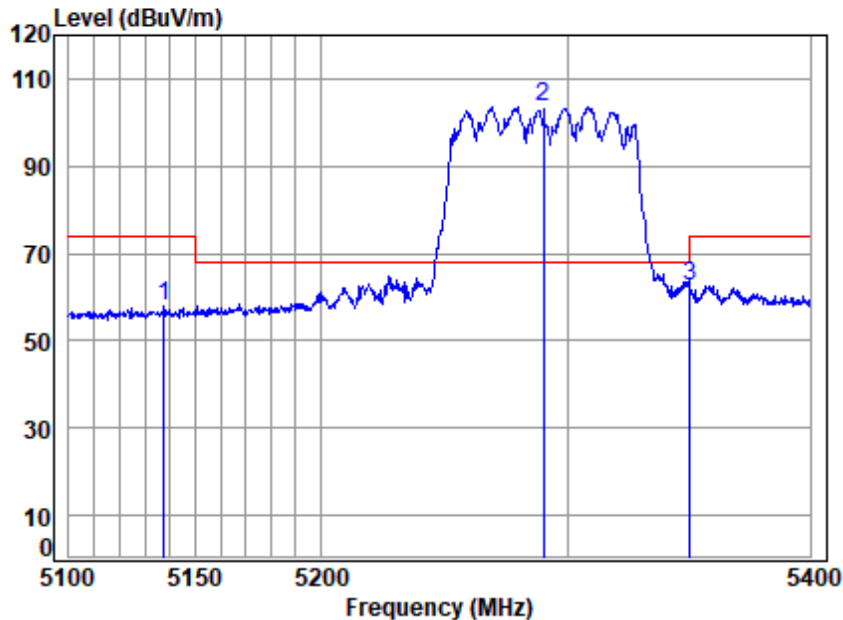
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 183 of 470

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5290 Band edge

: 5GWIFI MIMO 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.450	10.09	32.37	30.85	46.40	58.01	74.00	-15.99	peak
2 pp	5290.000	10.28	32.68	30.78	91.54	103.72	68.20	35.52	peak
3	5350.229	10.45	32.80	30.76	50.10	62.59	74.00	-11.41	peak



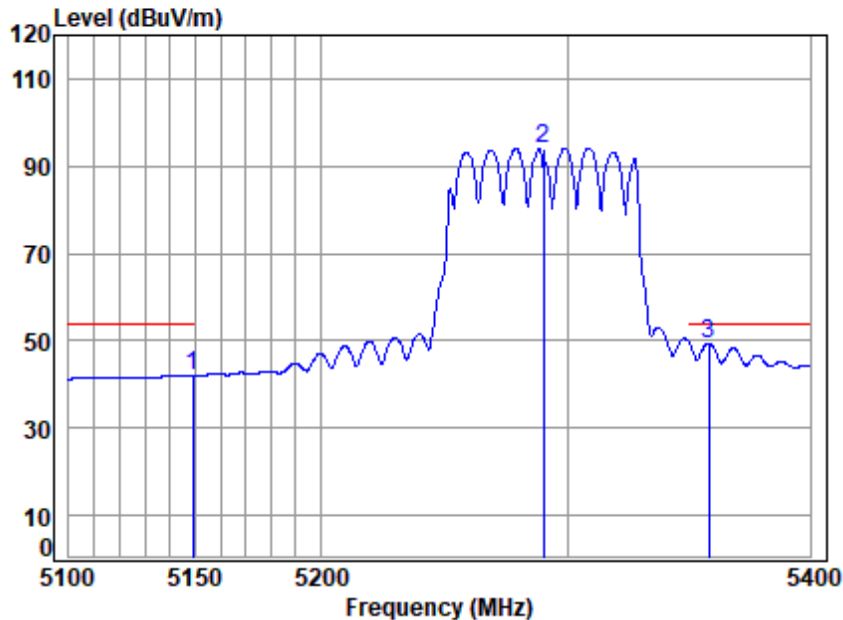
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5290 Band edge

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5148.915	10.14	32.40	30.84	30.47	42.17	54.00	-11.83	Average
2 5290.000	10.28	32.68	30.78	81.99	94.17	-----	-----	Average
3 pp 5357.879	10.48	32.80	30.76	36.97	49.49	54.00	-4.51	Average



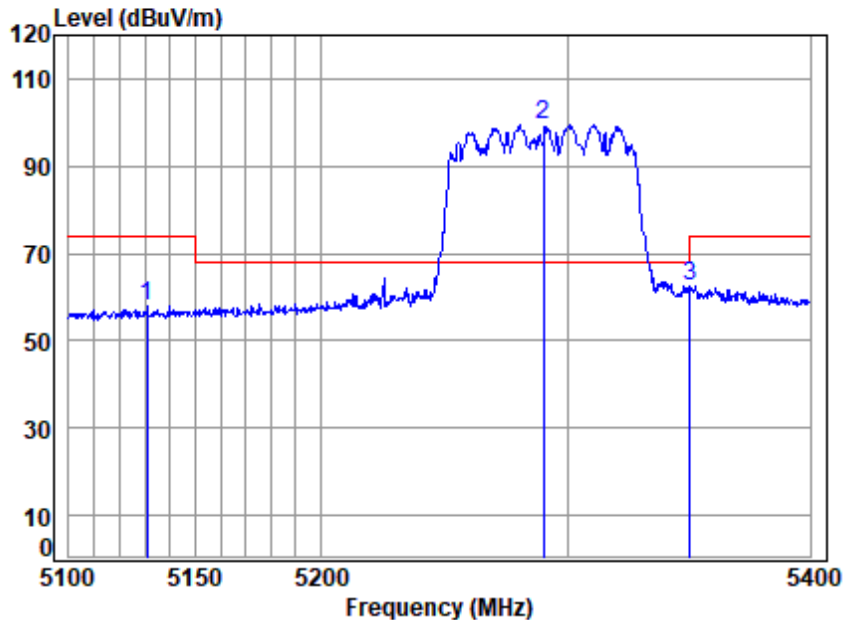
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5290 Band edge

: 5GWIFI MIMO 11AC80

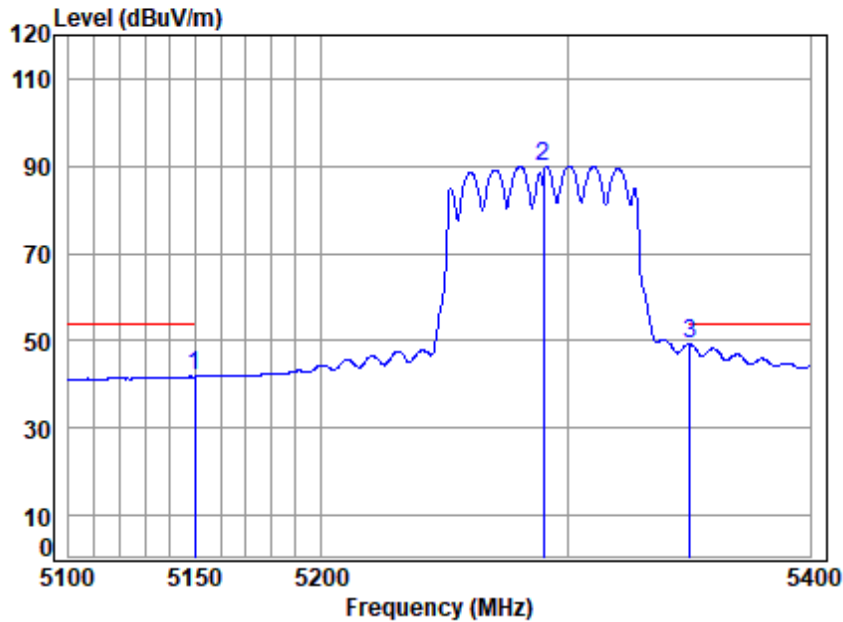
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5130.994	10.07	32.36	30.85	46.26	57.84	74.00	-16.16	peak
2	5290.000	10.28	32.68	30.78	87.19	99.37	68.20	31.17	peak
3	5350.229	10.45	32.80	30.76	50.05	62.54	74.00	-11.46	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5290 Band edge

: 5GWIFI MIMO 11AC80

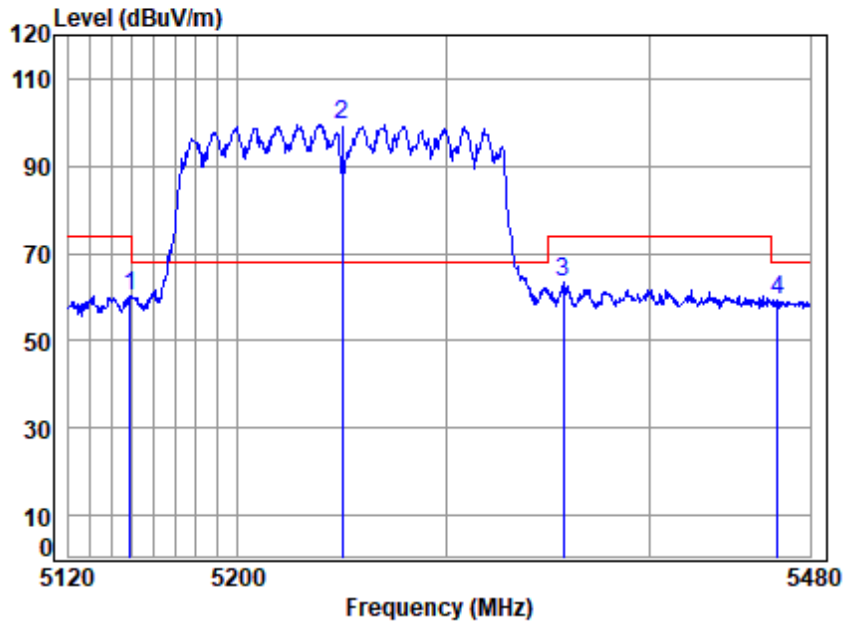
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.798	10.14	32.40	30.84	30.06	41.76	54.00	-12.24 Average
2 5290.000	10.28	32.68	30.78	77.89	90.07	-----	----- Average
3 pp 5350.229	10.45	32.80	30.76	36.71	49.20	54.00	-4.80 Average



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

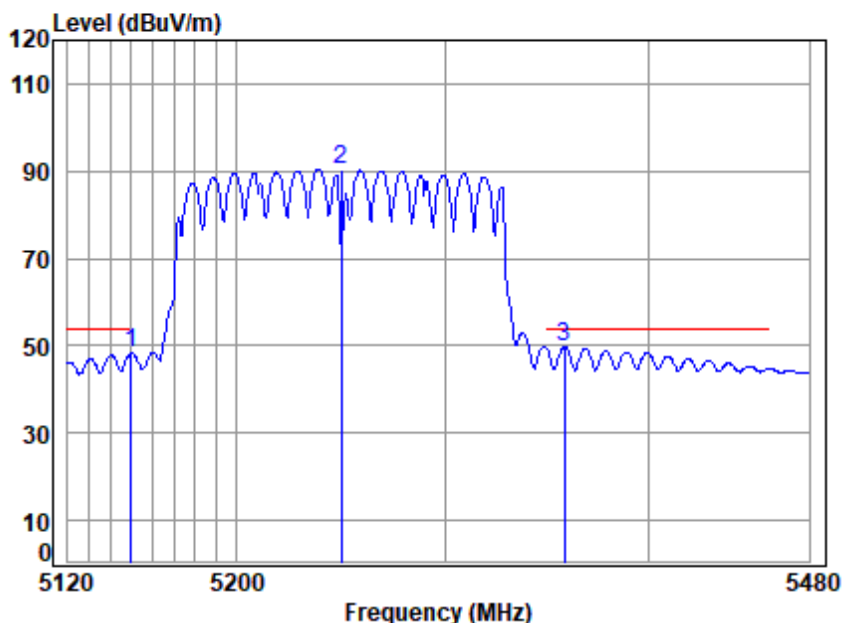
Mode : 5250 Band edge

: 5GWIFI MIMO 11AC160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	10.14	32.40	30.84	48.60	60.30	74.00	-13.70	peak
2 pp	5250.000	10.31	32.60	30.80	87.39	99.50	68.20	31.30	peak
3	5357.393	10.48	32.80	30.76	50.82	63.34	74.00	-10.66	peak
4	5463.640	10.59	32.90	30.71	46.65	59.43	68.20	-8.77	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5250 Band edge

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5149.658	10.14	32.40	30.84	36.52	48.22	54.00	-5.78 Average
2 5250.000	10.31	32.60	30.80	78.45	90.56	-----	----- Average
3 pp 5358.485	10.48	32.80	30.76	37.27	49.79	54.00	-4.21 Average



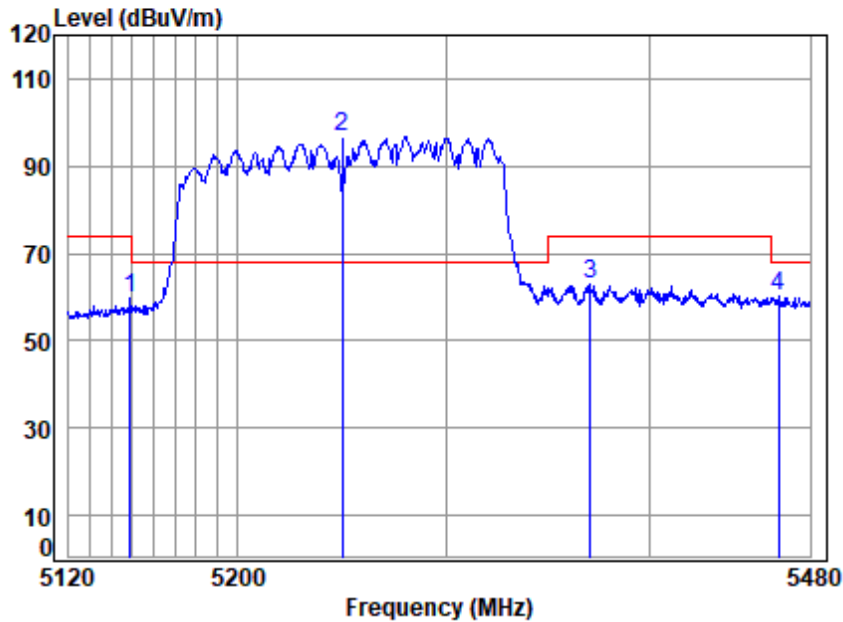
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5250 Band edge

: 5GWIFI MIMO 11AC160

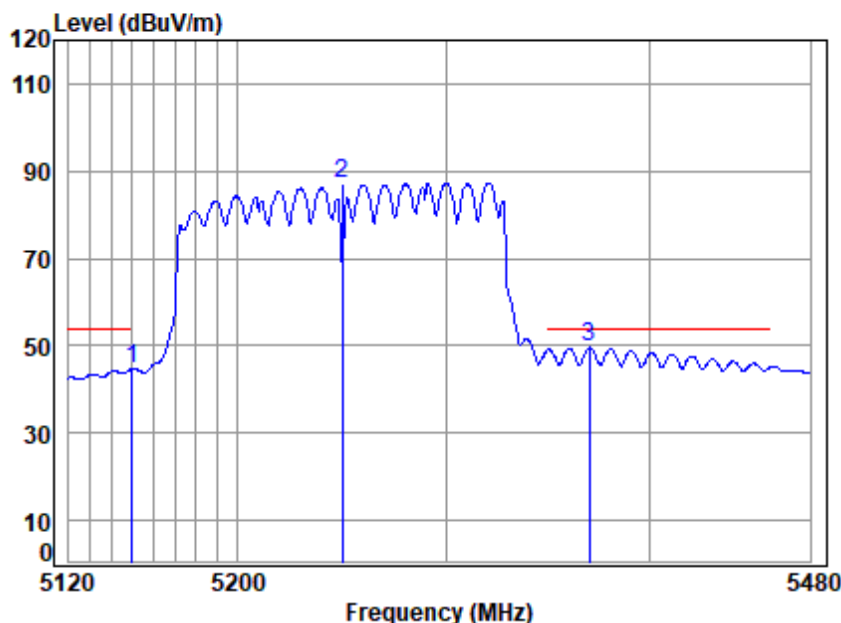
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	10.14	32.40	30.84	48.27	59.97	74.00	-14.03	peak
2 pp	5250.000	10.31	32.60	30.80	84.69	96.80	68.20	28.60	peak
3	5370.515	10.52	32.80	30.75	50.24	62.81	74.00	-11.19	peak
4	5464.012	10.59	32.90	30.71	47.61	60.39	68.20	-7.81	peak



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5250 Band edge

: 5GWIFI MIMO 11AC160

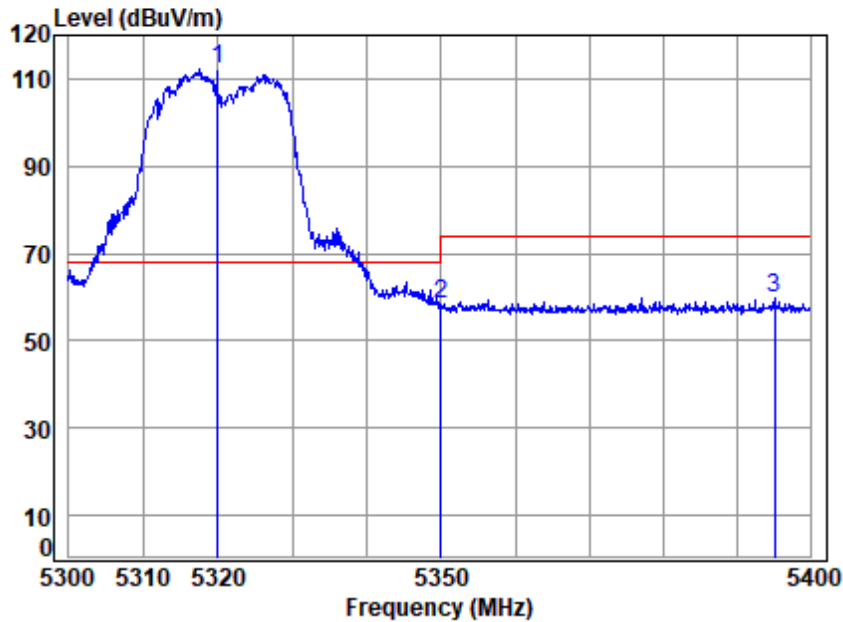
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5149.658	10.14	32.40	30.84	32.99	44.69	54.00	-9.31	Average
2 5250.000	10.31	32.60	30.80	75.17	87.28	-----	-----	Average
3 pp 5370.150	10.52	32.80	30.75	36.94	49.51	54.00	-4.49	Average



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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	99.88	112.20	68.20	44.00	peak
2	5350.020	10.45	32.80	30.76	45.73	58.22	74.00	-15.78	peak
3	5395.157	10.60	32.80	30.74	47.34	60.00	74.00	-14.00	peak



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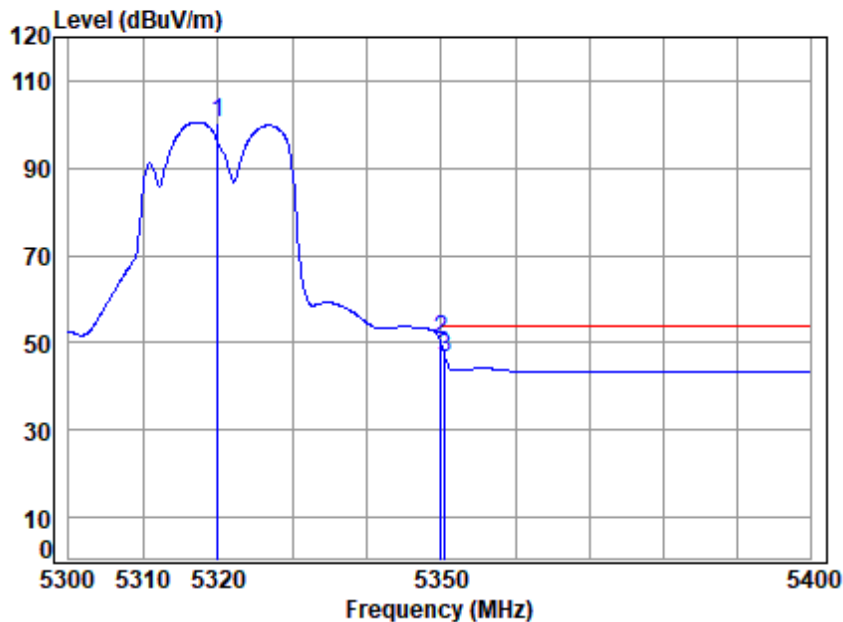
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 192 of 470

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	88.24	100.56	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	37.95	50.44	54.00	-3.56	Average
3	5350.566	10.45	32.80	30.76	34.12	46.61	54.00	-7.39	Average



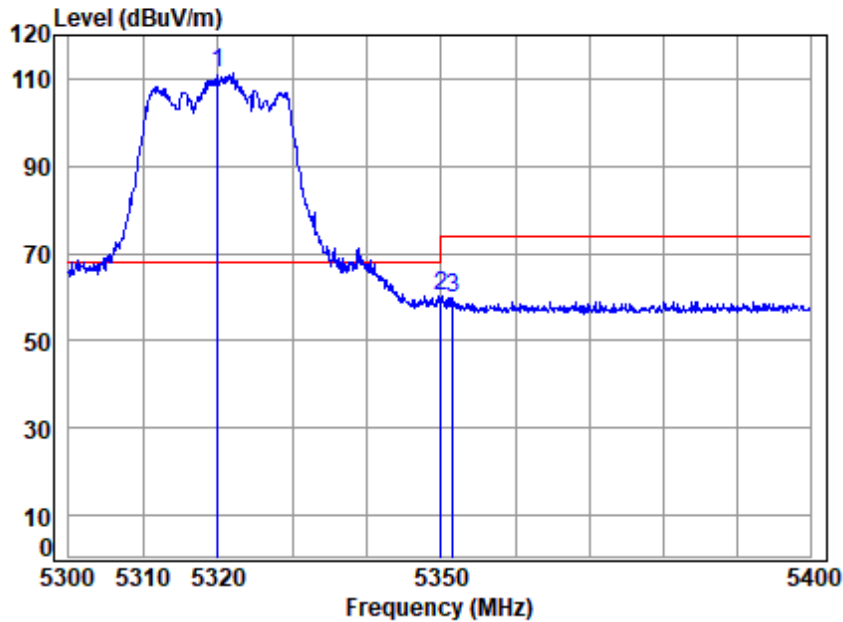
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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	98.86	111.18	68.20	42.98	peak
2	5350.020	10.45	32.80	30.76	47.87	60.36	74.00	-13.64	peak
3	5351.566	10.46	32.80	30.76	47.13	59.63	74.00	-14.37	peak



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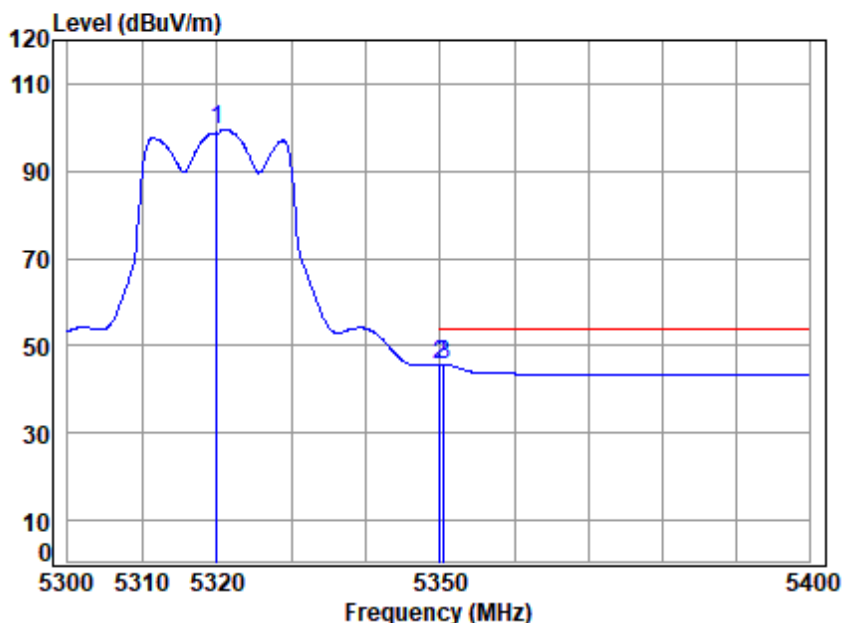
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	87.20	99.52	-----	-----	Average
2 pp	5350.020	10.45	32.80	30.76	33.30	45.79	54.00	-8.21	Average
3	5350.566	10.45	32.80	30.76	33.23	45.72	54.00	-8.28	Average



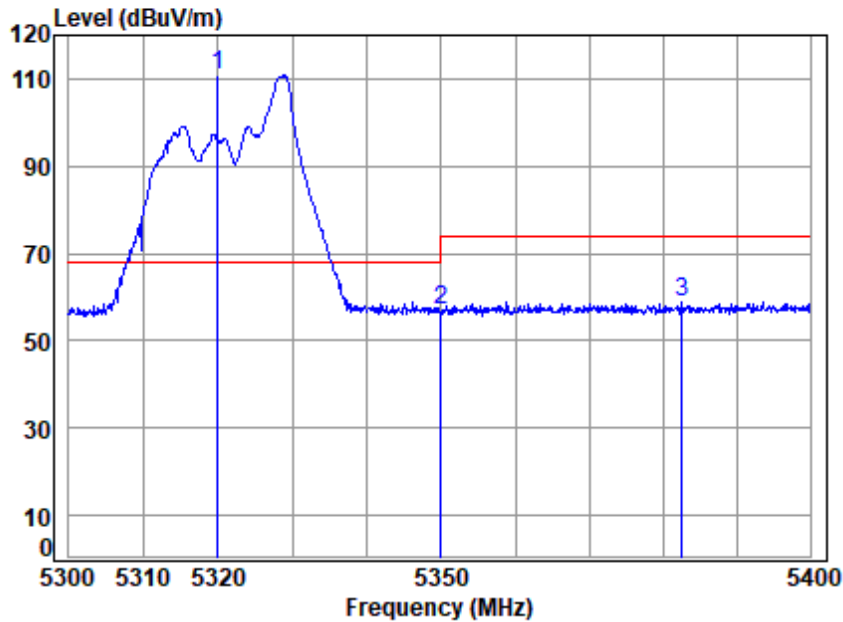
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Test Mode: 10; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

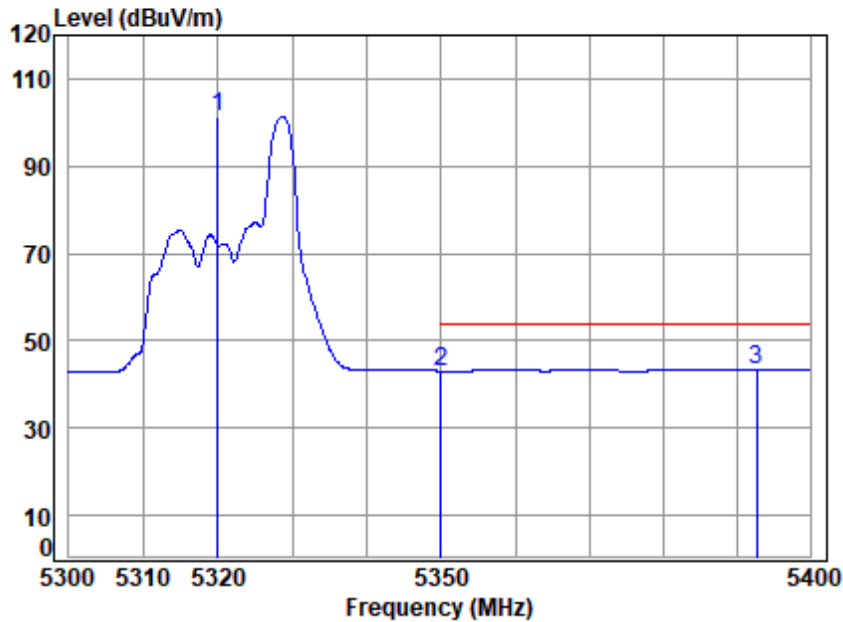
Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	98.46	110.78	68.20	42.58	peak
2	5350.020	10.45	32.80	30.76	44.34	56.83	74.00	-17.17	peak
3	5382.566	10.56	32.80	30.75	46.19	58.80	74.00	-15.20	peak



Test Mode: 10; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

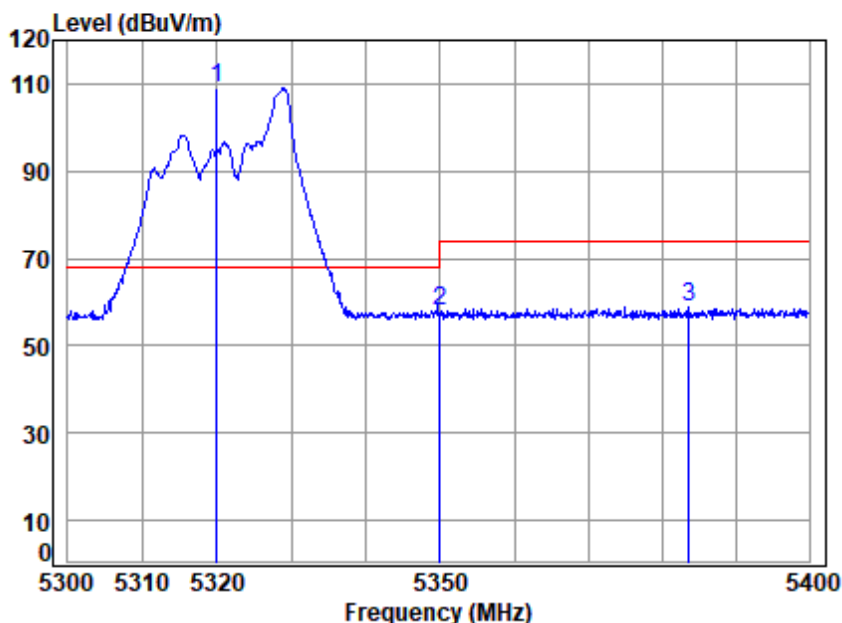
Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	88.91	101.23	-----	-----	Average
2	5350.020	10.45	32.80	30.76	30.62	43.11	54.00	-10.89	Average
3 pp	5392.737	10.60	32.80	30.74	30.70	43.36	54.00	-10.64	Average



Test Mode: 10; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

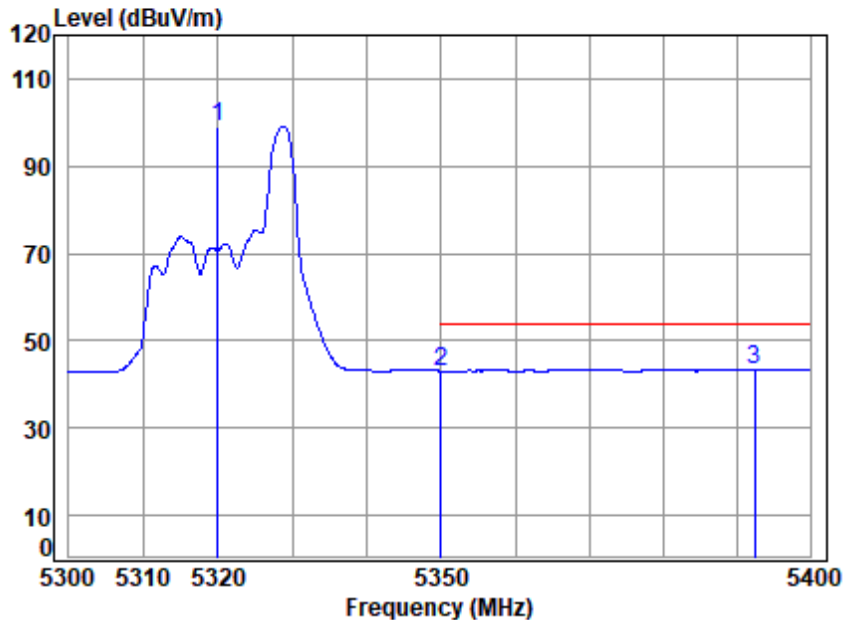
	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5320.000	10.35	32.74	30.77	96.68	109.00	68.20	40.80	peak
5350.020	10.45	32.80	30.76	45.50	57.99	74.00	-16.01	peak
5383.673	10.56	32.80	30.75	46.29	58.90	74.00	-15.10	peak



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Test Mode: 10; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

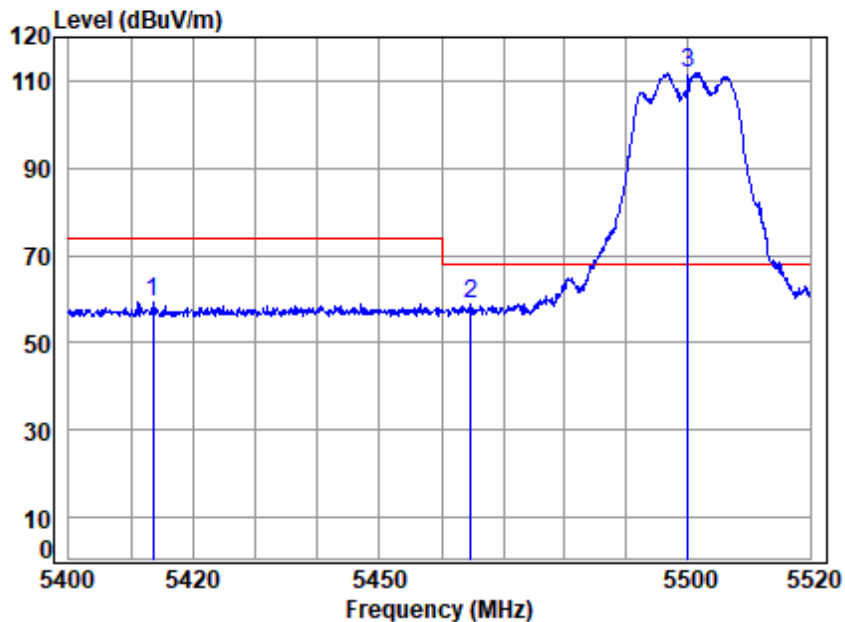
Mode : 5320 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	10.35	32.74	30.77	86.82	99.14	-----	-----	Average
2	5350.020	10.45	32.80	30.76	30.62	43.11	54.00	-10.89	Average
3 pp	5392.435	10.59	32.80	30.74	30.71	43.36	54.00	-10.64	Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5413.547	10.61	32.83	30.73	46.59	59.30	74.00	-14.70 peak
2	5464.712	10.59	32.90	30.71	46.19	58.97	68.20	-9.23 peak
3	pp 5500.000	10.58	32.90	30.70	99.16	111.94	68.20	43.74 peak



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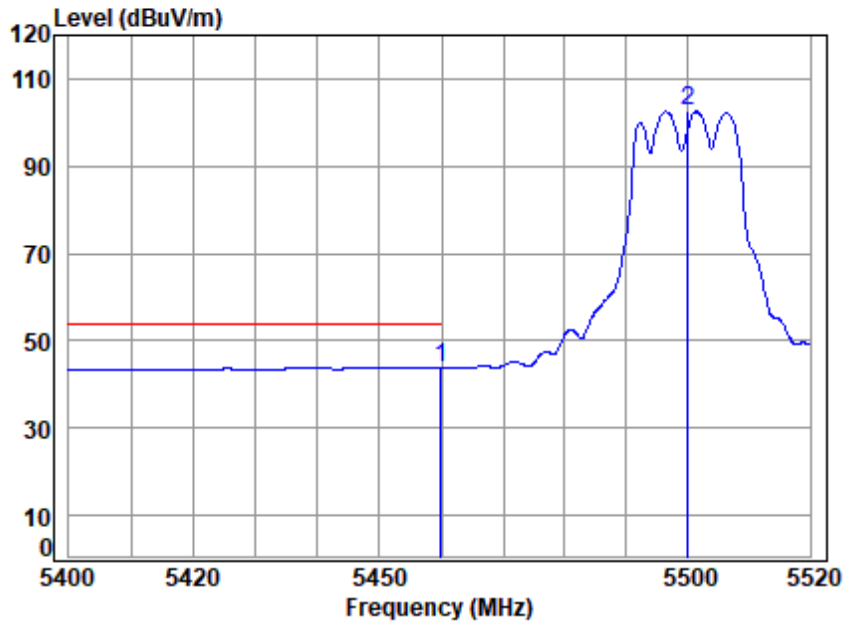
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge
: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp 5459.910	10.60	32.90	30.72	31.05	43.83	54.00	-10.17	Average	
2 5500.000	10.58	32.90	30.70	89.72	102.50	-----	-----	Average	



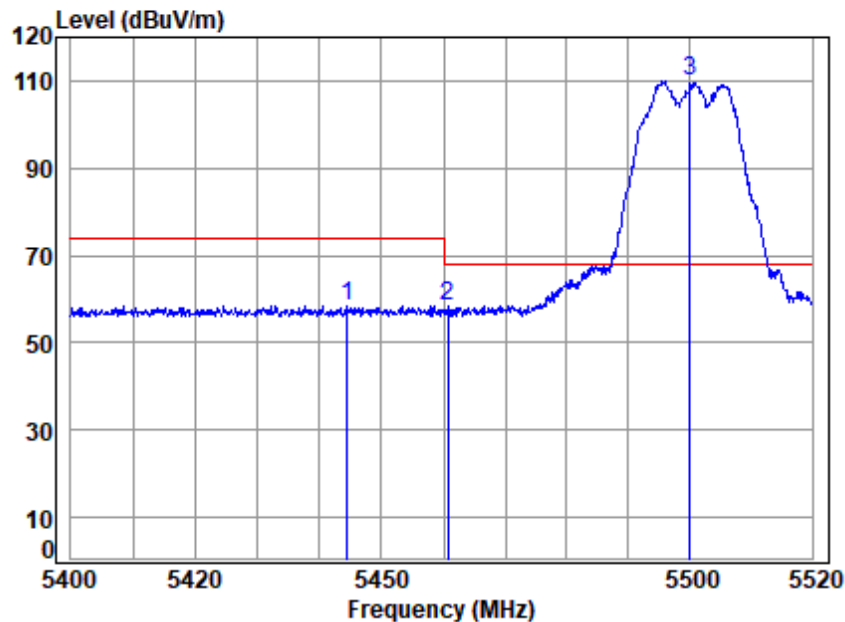
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5444.452	10.60	32.89	30.72	45.78	58.55	74.00	-15.45 peak
2	5460.750	10.60	32.90	30.72	45.64	58.42	68.20	-9.78 peak
3	pp 5500.000	10.58	32.90	30.70	97.05	109.83	68.20	41.63 peak



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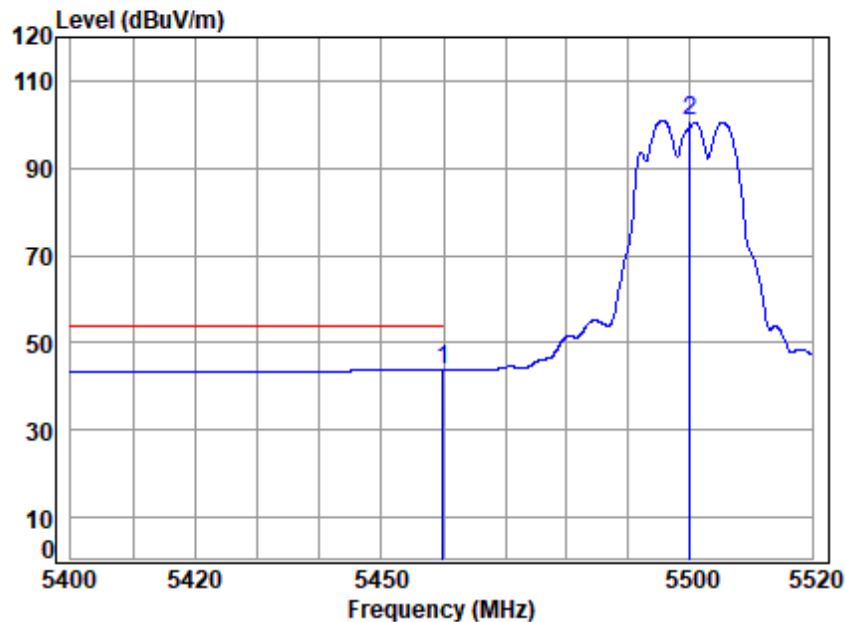
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	30.94	43.72	54.00	-10.28	Average
2	5500.000	10.58	32.90	30.70	88.15	100.93	-----	-----	Average



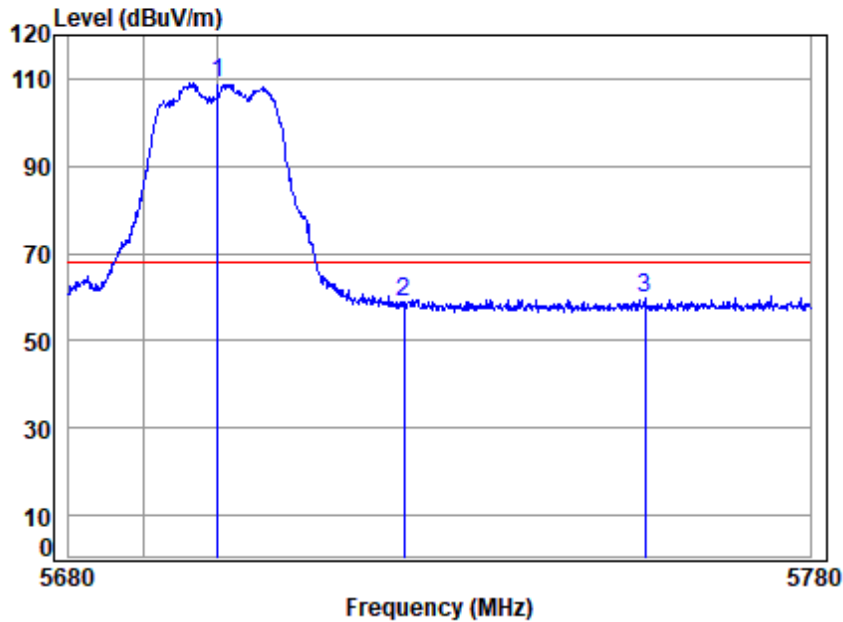
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	96.02	109.16	68.20	40.96	peak
2	5725.000	10.68	33.25	30.61	45.61	58.93	68.20	-9.27	peak
3	5757.649	10.83	33.32	30.60	46.31	59.86	68.20	-8.34	peak



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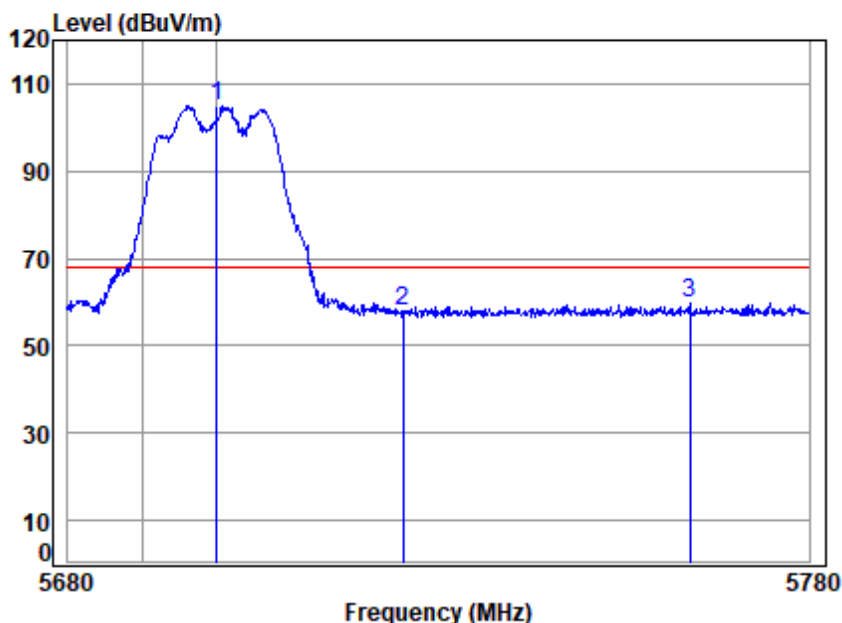
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	91.69	104.83	68.20	36.63	peak
2	5725.000	10.68	33.25	30.61	44.79	58.11	68.20	-10.09	peak
3	5763.782	10.85	33.33	30.59	46.01	59.60	68.20	-8.60	peak



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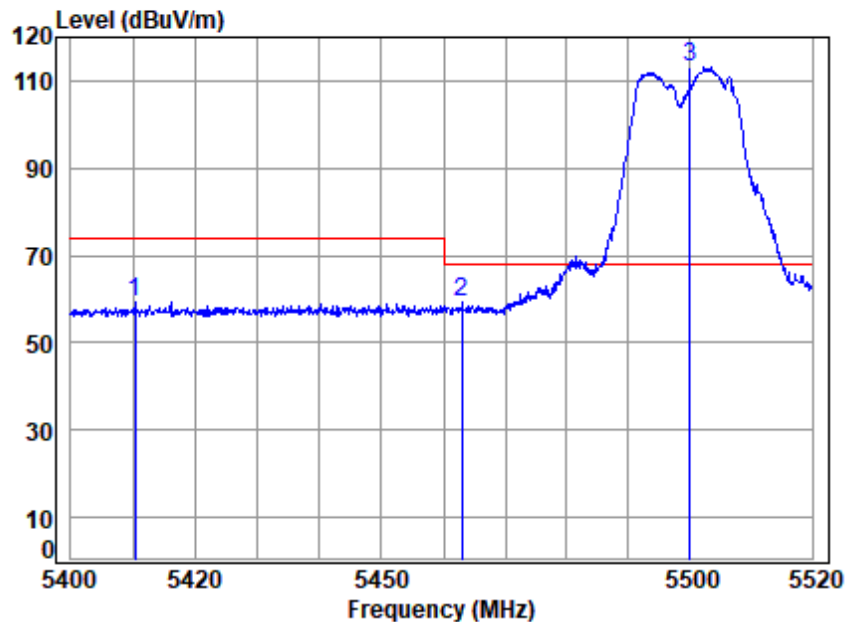
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 205 of 470

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5410.335	10.62	32.82	30.74	46.63	59.33	74.00	-14.67	peak
2 5463.031	10.59	32.90	30.71	46.47	59.25	68.20	-8.95	peak
3 pp 5500.000	10.58	32.90	30.70	100.18	112.96	68.20	44.76	peak



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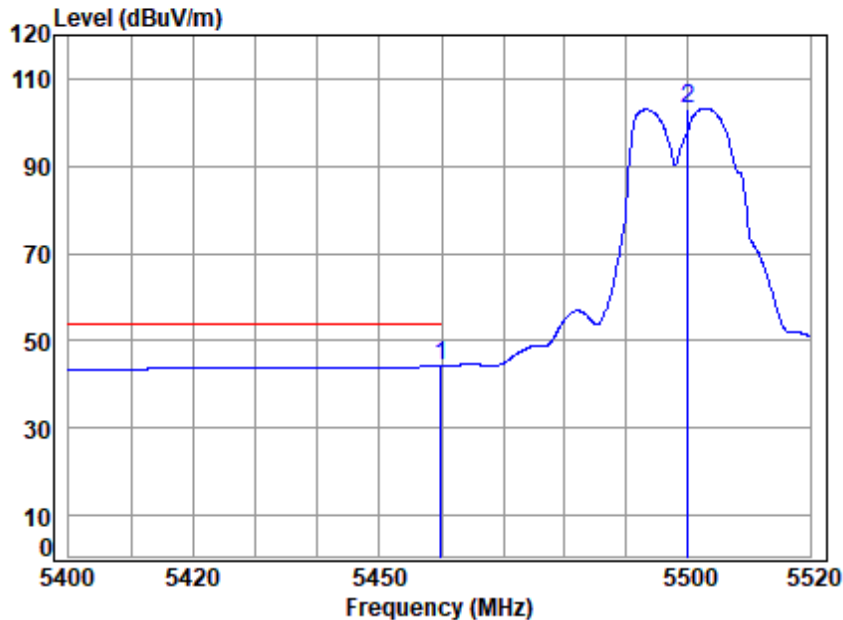
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Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	31.34	44.12	54.00	-9.88	Average
2	5500.000	10.58	32.90	30.70	90.55	103.33	-----	-----	Average



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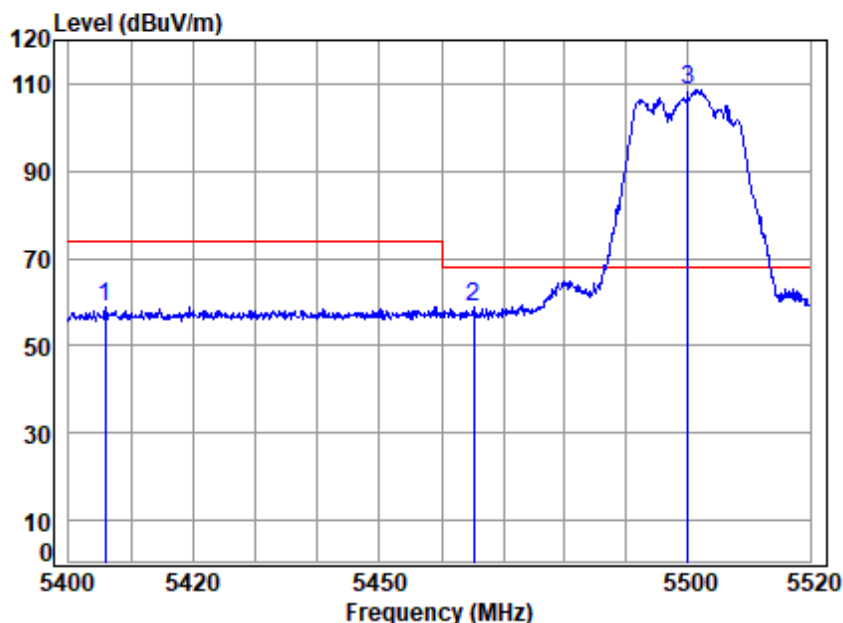
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AC20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5405.819	10.62	32.81	30.74	46.19	58.88	74.00	-15.12 peak
2 5465.193	10.59	32.90	30.71	46.20	58.98	68.20	-9.22 peak
3 pp 5500.000	10.58	32.90	30.70	95.79	108.57	68.20	40.37 peak



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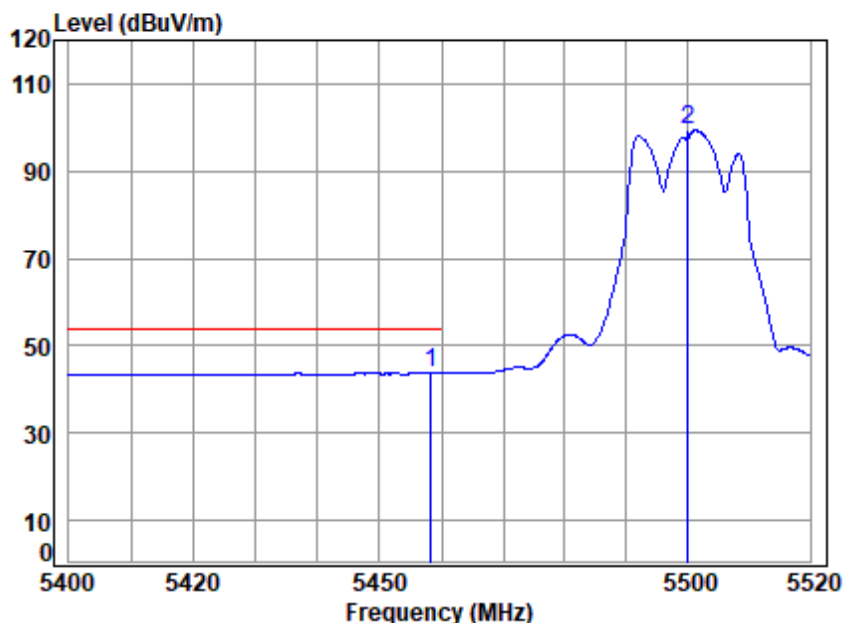
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Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5458.351	10.60	32.90	30.72	30.91	43.69	54.00	-10.31	Average
2	5500.000	10.58	32.90	30.70	86.51	99.29	-----	-----	Average



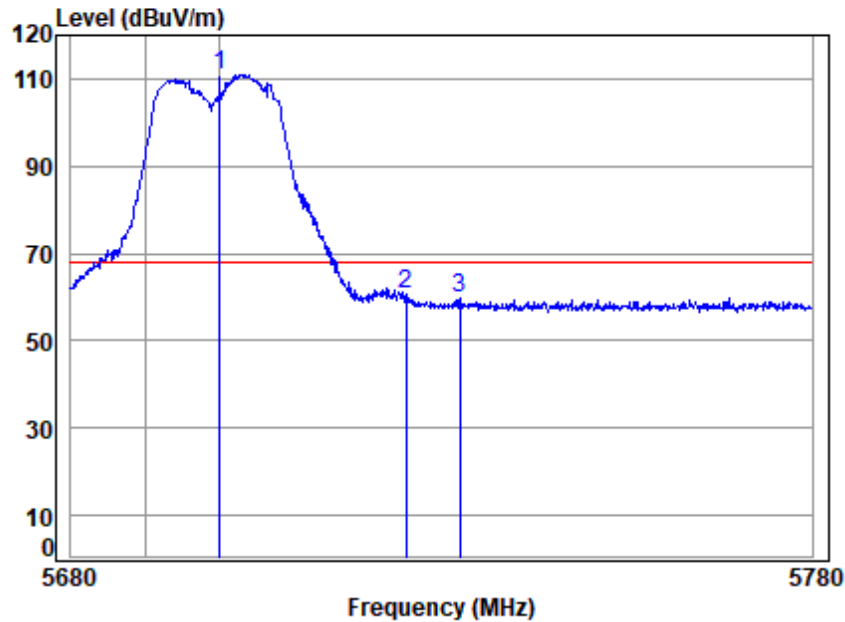
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11AC20

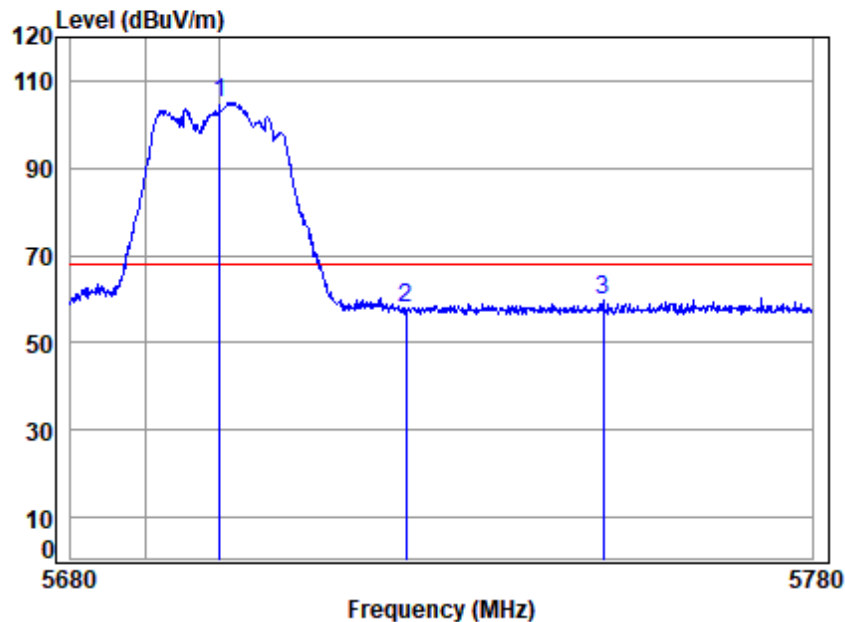
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	97.94	111.08	68.20	42.88	peak
2	5725.000	10.68	33.25	30.61	47.14	60.46	68.20	-7.74	peak
3	5732.282	10.71	33.26	30.61	46.60	59.96	68.20	-8.24	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	91.99	105.13	68.20	36.93	peak
2	5725.000	10.68	33.25	30.61	44.78	58.10	68.20	-10.10	peak
3	5751.623	10.80	33.30	30.60	46.18	59.68	68.20	-8.52	peak



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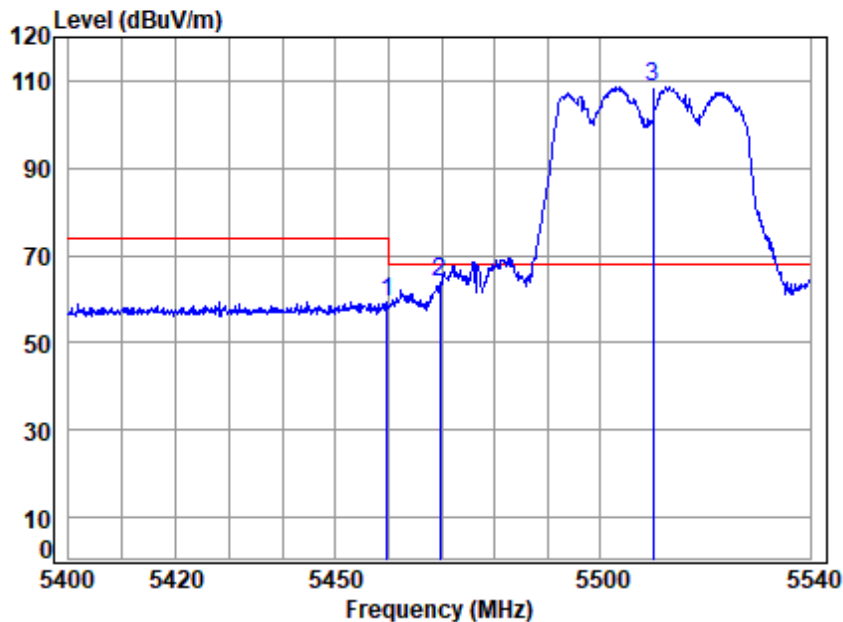
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5510 Band edge

: 5GWIFI MIMO 11AC40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5459.761	10.60	32.90	30.72	46.36	59.14	74.00	-14.86	peak
2 5469.692	10.59	32.90	30.71	51.16	63.94	68.20	-4.26	peak
3 pp 5510.000	10.56	32.90	30.70	95.99	108.75	68.20	40.55	peak



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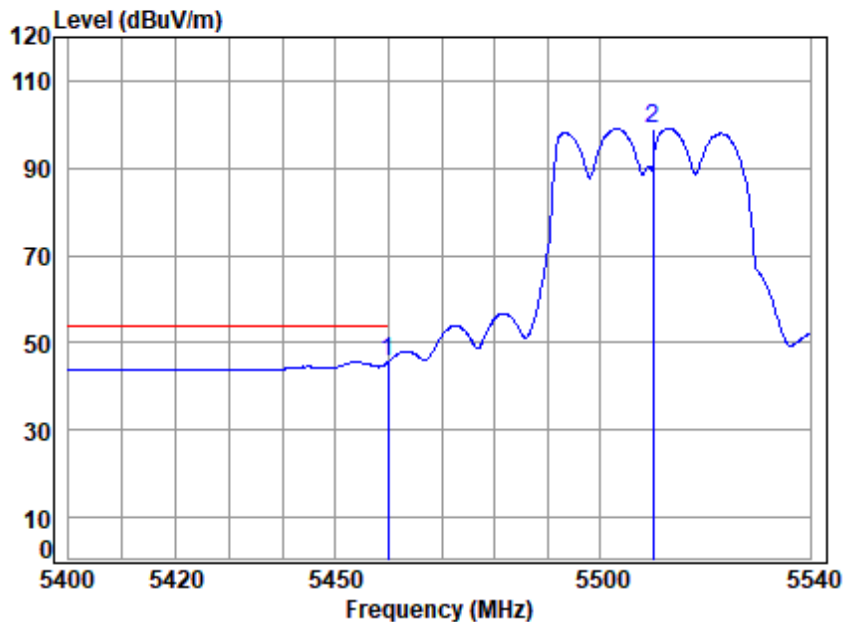
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5510 Band edge

: 5GWIFI MIMO 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.901	10.60	32.90	30.72	32.85	45.63	54.00	-8.37	Average
2	5510.000	10.56	32.90	30.70	86.27	99.03	-----	-----	Average



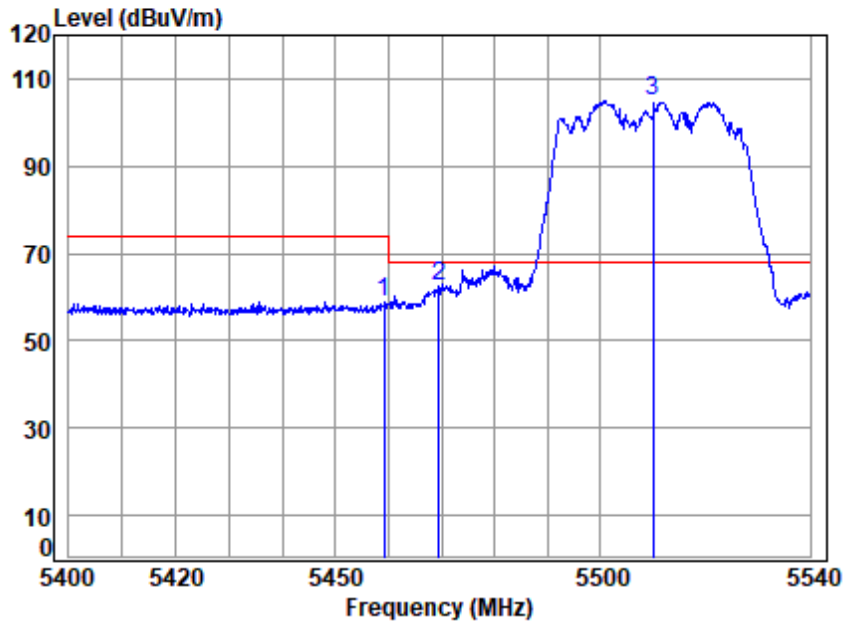
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5510 Band edge

: 5GWIFI MIMO 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.202	10.60	32.90	30.72	46.20	58.98	74.00	-15.02	peak
2	5469.412	10.59	32.90	30.71	49.70	62.48	68.20	-5.72	peak
3 pp	5510.000	10.56	32.90	30.70	92.03	104.79	68.20	36.59	peak



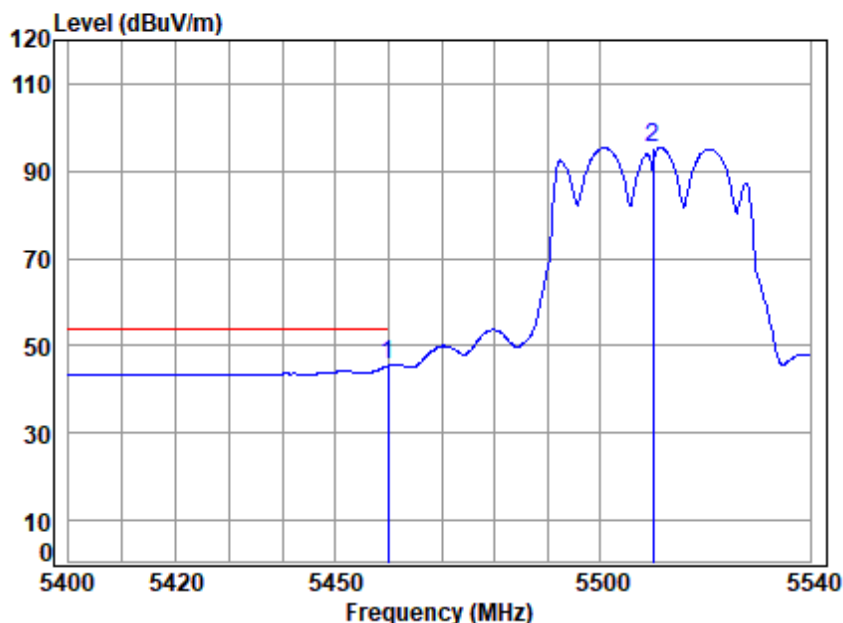
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5510 Band edge

: 5GWIFI MIMO 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.901	10.60	32.90	30.72	32.64	45.42	54.00	-8.58	Average
2	5510.000	10.56	32.90	30.70	82.82	95.58	-----	-----	Average



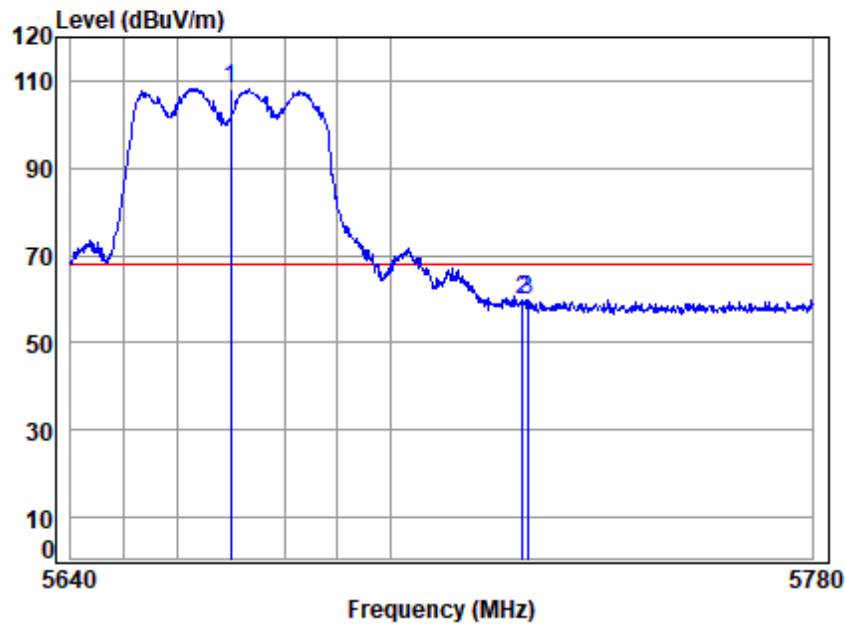
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5670 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	95.25	108.28	68.20	40.08	peak
2	5725.000	10.68	33.25	30.61	46.39	59.71	68.20	-8.49	peak
3	5725.833	10.68	33.25	30.61	46.67	59.99	68.20	-8.21	peak



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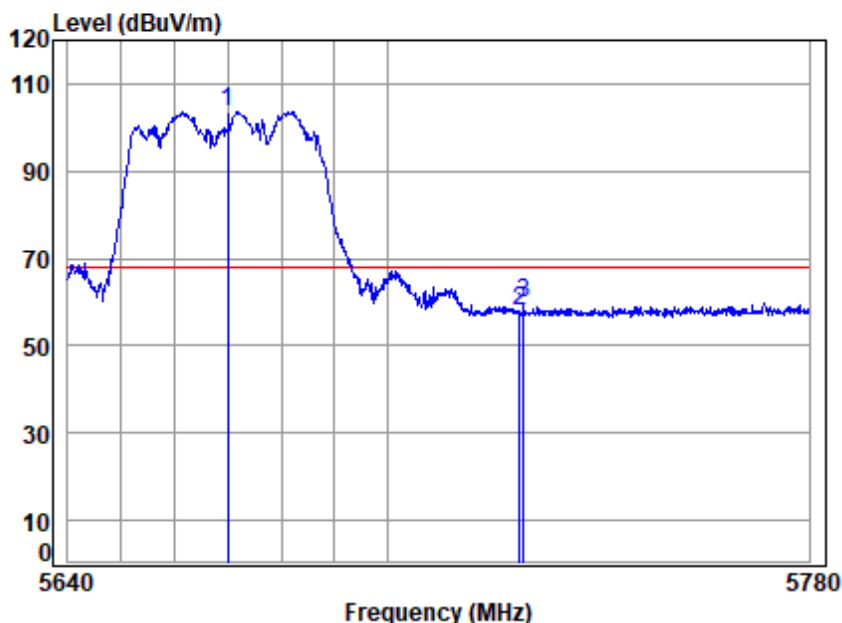
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 216 of 470

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5670 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	90.74	103.77	68.20	35.57	peak
2	5725.000	10.68	33.25	30.61	44.77	58.09	68.20	-10.11	peak
3	5725.693	10.68	33.25	30.61	46.63	59.95	68.20	-8.25	peak



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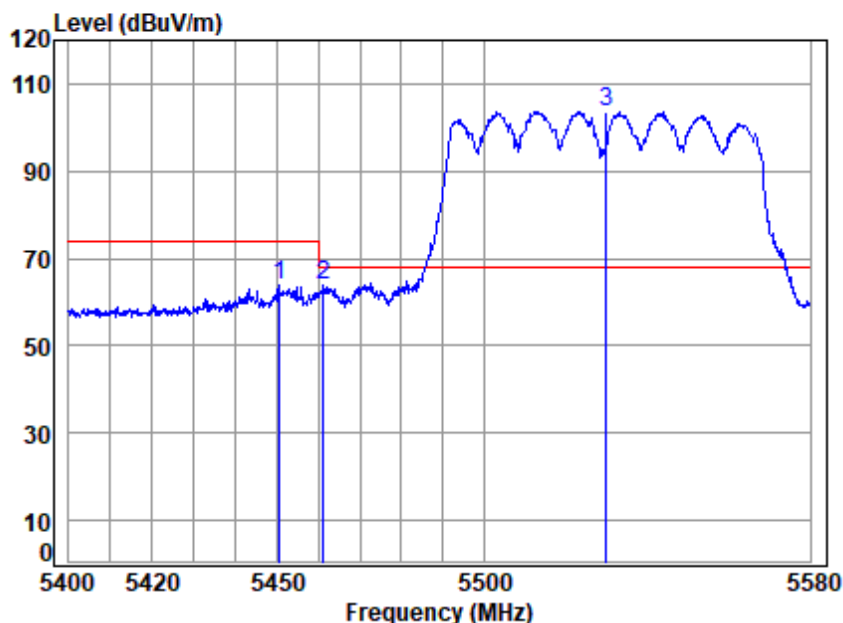
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 217 of 470

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5530 Band edge

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5450.521	10.60	32.90	30.72	51.14	63.92	74.00	-10.08 peak
2	5461.076	10.60	32.90	30.72	51.09	63.87	68.20	-4.33 peak
3	pp 5530.000	10.53	32.90	30.69	91.05	103.79	68.20	35.59 peak



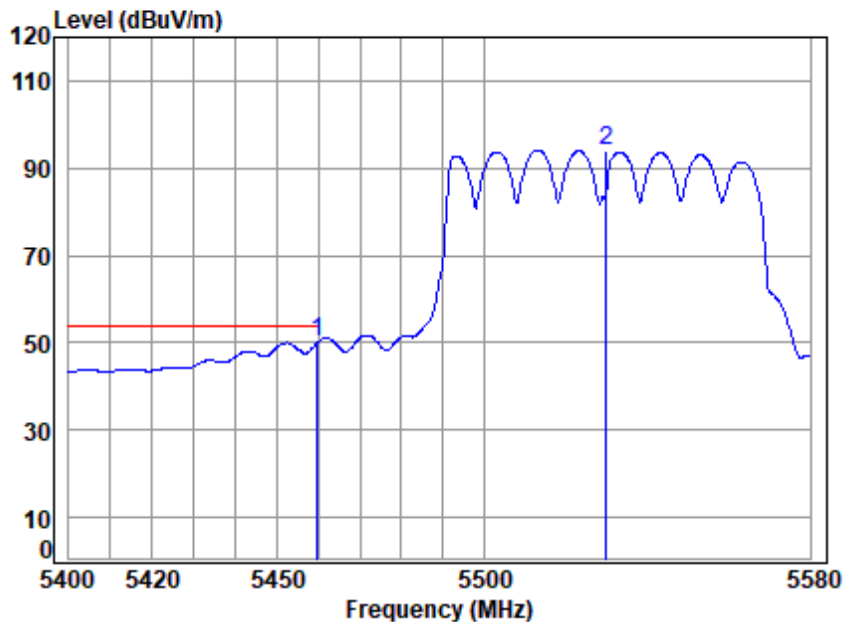
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5530 Band edge

: 5GWIFI MIMO 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5459.823	10.60	32.90	30.72	37.32	50.10	54.00	-3.90	Average
2 5530.000	10.53	32.90	30.69	81.41	94.15	-----	-----	Average



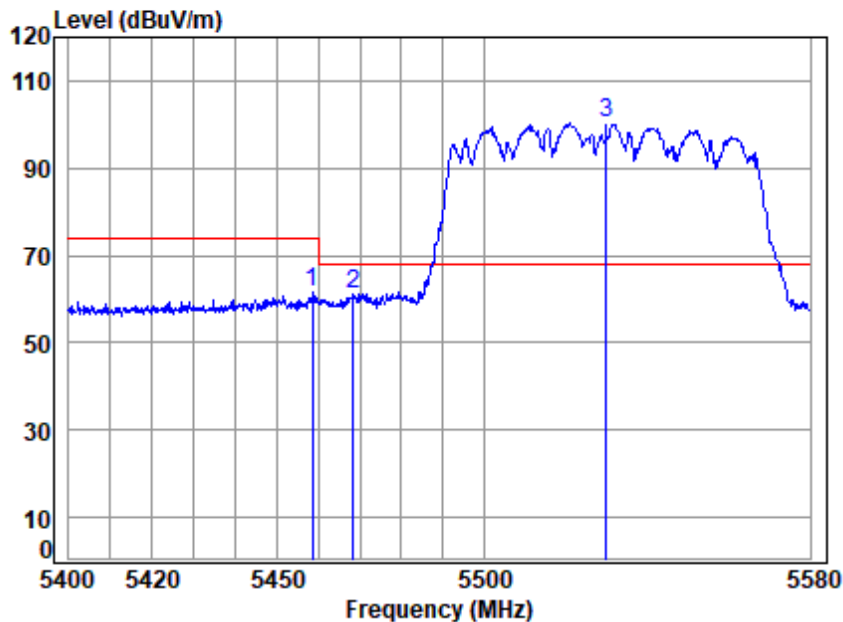
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5530 Band edge

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5458.570	10.60	32.90	30.72	48.73	61.51	74.00	-12.49	peak
2 5468.423	10.59	32.90	30.71	48.57	61.35	68.20	-6.85	peak
3 pp 5530.000	10.53	32.90	30.69	87.42	100.16	68.20	31.96	peak



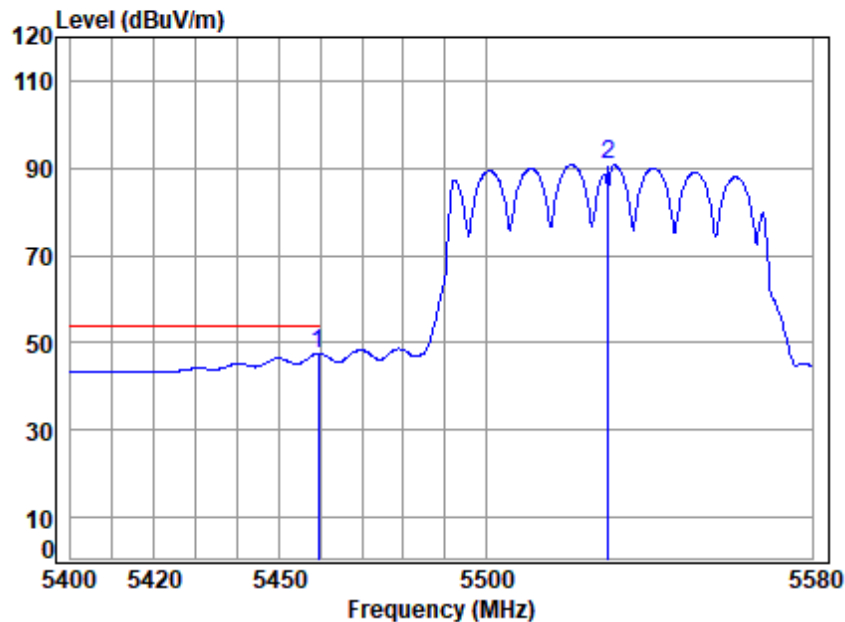
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5530 Band edge

: 5GWIFI MIMO 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.465	10.60	32.90	30.72	34.61	47.39	54.00	-6.61	Average
2	5530.000	10.53	32.90	30.69	78.09	90.83	-----	-----	Average



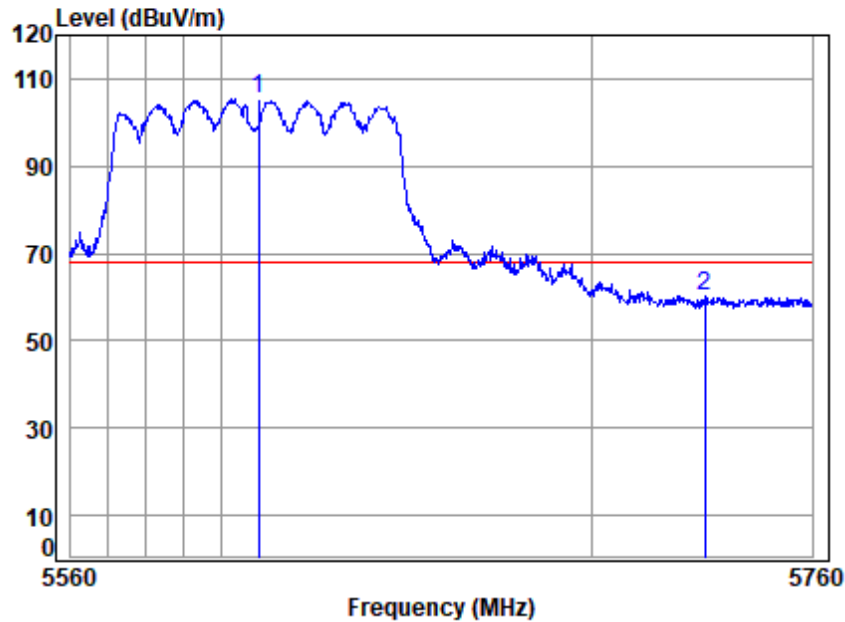
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

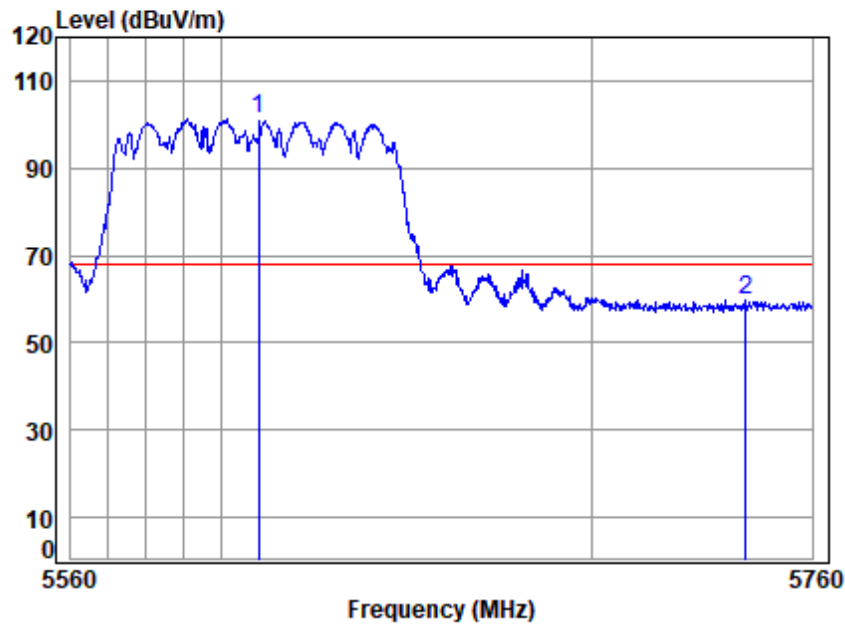
Mode : 5610 Band edge

: 5GWIFI MIMO 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	92.81	105.60	68.20	37.40	peak
2	5730.560	10.70	33.26	30.61	46.92	60.27	68.20	-7.93	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5610 Band edge

: 5GWIFI MIMO 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	88.60	101.39	68.20	33.19	peak
2	5741.912	10.75	33.28	30.60	46.48	59.91	68.20	-8.29	peak



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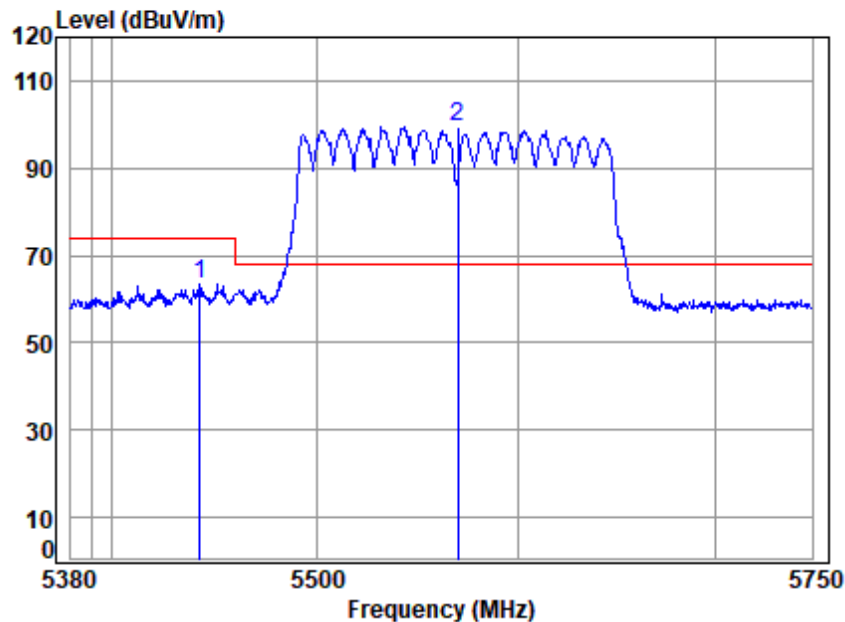
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5570 Band edge

: 5GWIFI MIMO 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5442.625	10.60	32.89	30.72	50.83	63.60	74.00	-10.40	peak
2 pp	5570.000	10.46	32.94	30.67	86.88	99.61	68.20	31.41	peak



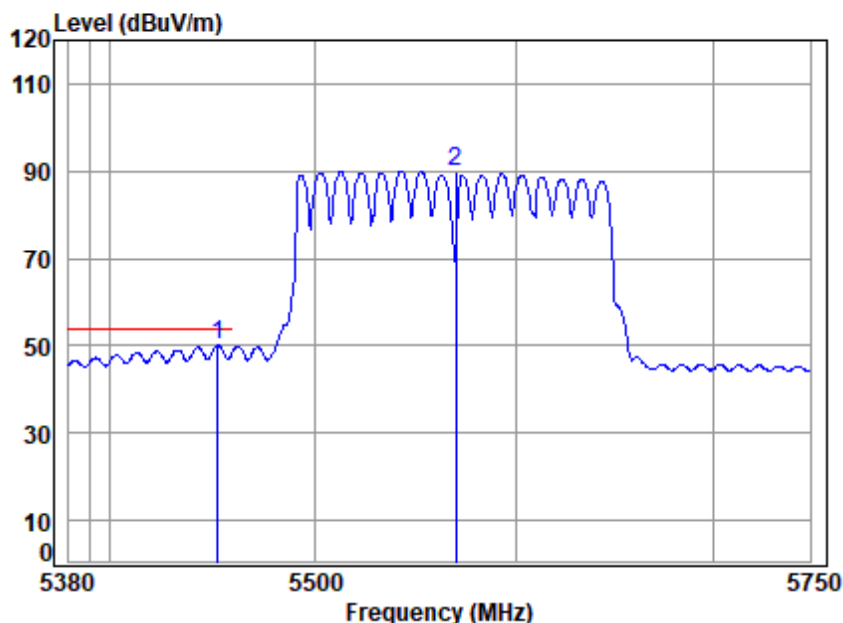
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

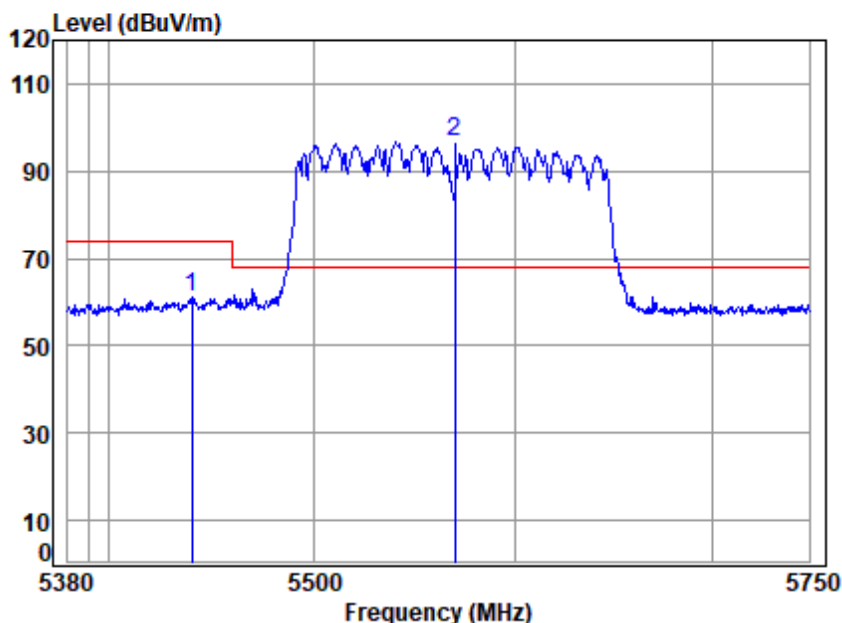
Mode : 5570 Band edge

: 5GWIFI MIMO 11AC160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5452.407	10.60	32.90	30.72	37.25	50.03	54.00	-3.97	Average
2	5570.000	10.46	32.94	30.67	77.26	89.99	-----	-----	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5570 Band edge

: 5GWIFI MIMO 11AC160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5440.091	10.60	32.88	30.72	48.28	61.04	74.00	-12.96	peak
5570.000	10.46	32.94	30.67	83.78	96.51	68.20	28.31	peak



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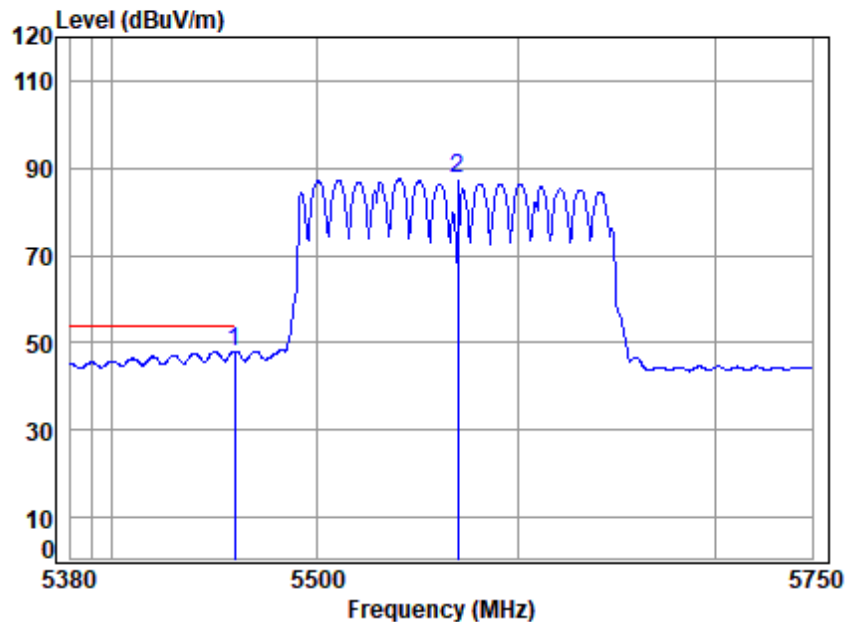
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5570 Band edge

: 5GWIFI MIMO 11AC160

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.665	10.60	32.90	30.72	35.35	48.13	54.00	-5.87	Average
2	5570.000	10.46	32.94	30.67	74.76	87.49	-----	-----	Average



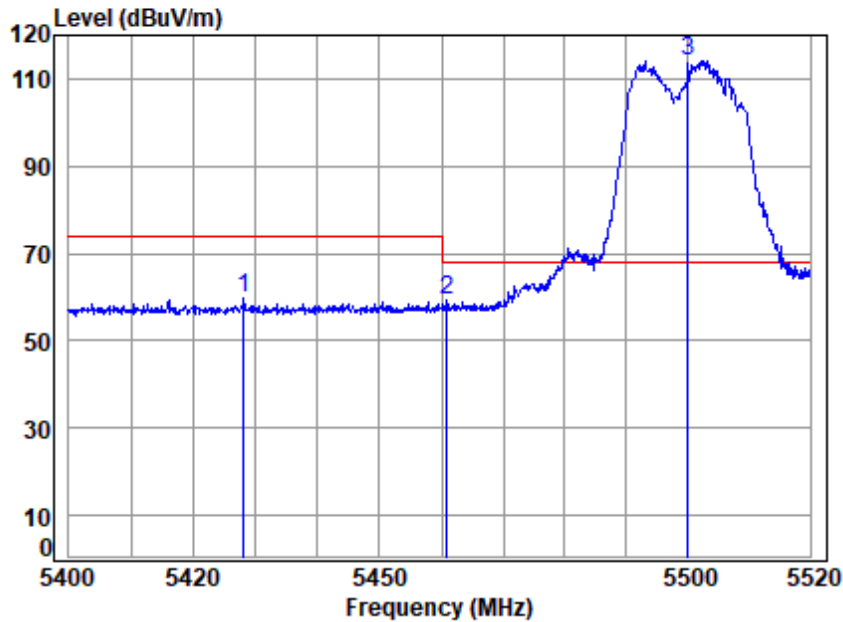
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 11; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5428.083	10.61	32.86	30.73	47.07	59.81	74.00	-14.19 peak
2	5460.871	10.60	32.90	30.72	46.37	59.15	68.20	-9.05 peak
3	pp 5500.000	10.58	32.90	30.70	101.49	114.27	68.20	46.07 peak



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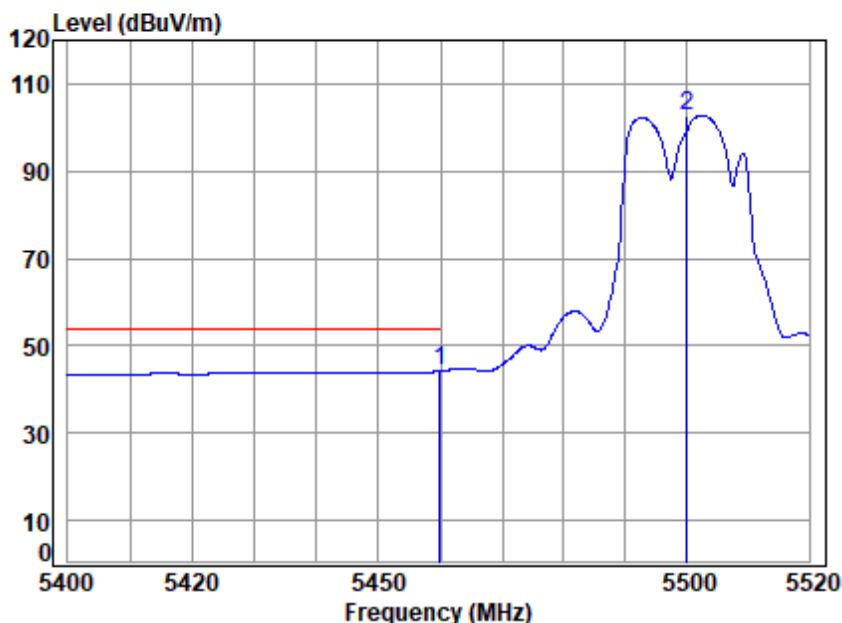
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	31.44	44.22	54.00	-9.78	Average
2	5500.000	10.58	32.90	30.70	89.93	102.71	-----	-----	Average



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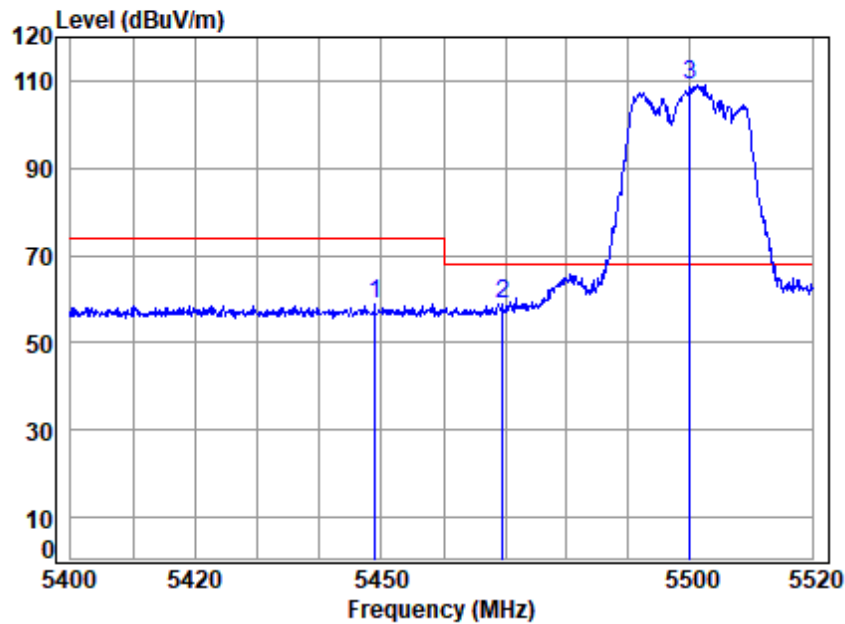
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5448.881	10.60	32.90	30.72	46.18	58.96	74.00	-15.04 peak
2	5469.519	10.59	32.90	30.71	45.96	58.74	68.20	-9.46 peak
3 pp	5500.000	10.58	32.90	30.70	96.39	109.17	68.20	40.97 peak



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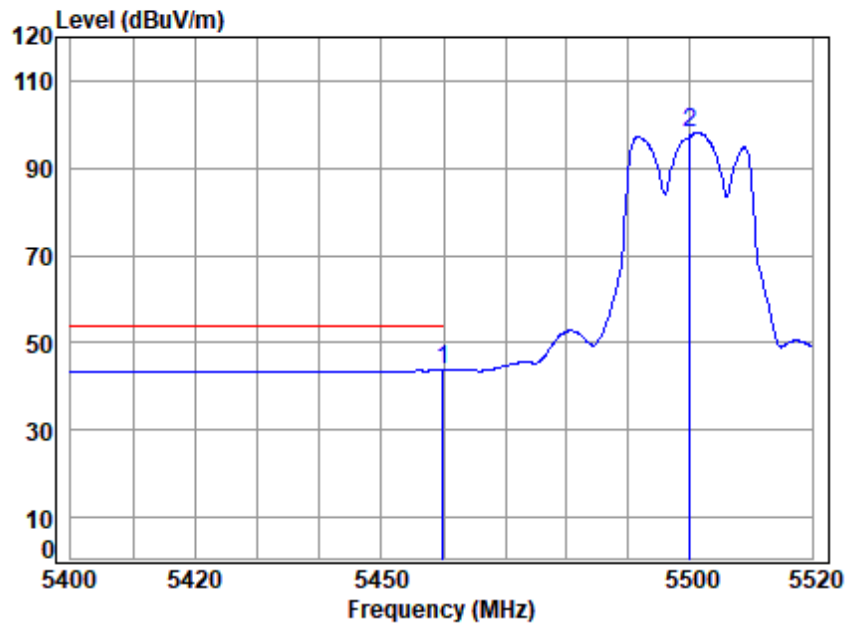
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

Page: 230 of 470

Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5459.910	10.60	32.90	30.72	30.91	43.69	54.00	-10.31	Average
2	5500.000	10.58	32.90	30.70	85.39	98.17	-----	-----	Average



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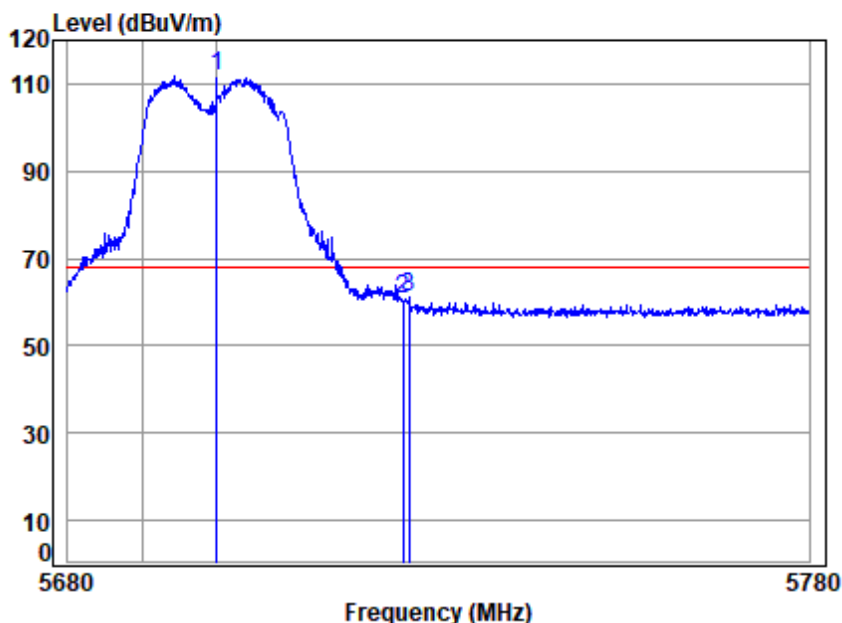
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Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	98.53	111.67	68.20	43.47	peak
2	5725.000	10.68	33.25	30.61	47.39	60.71	68.20	-7.49	peak
3	5725.783	10.68	33.25	30.61	47.90	61.22	68.20	-6.98	peak



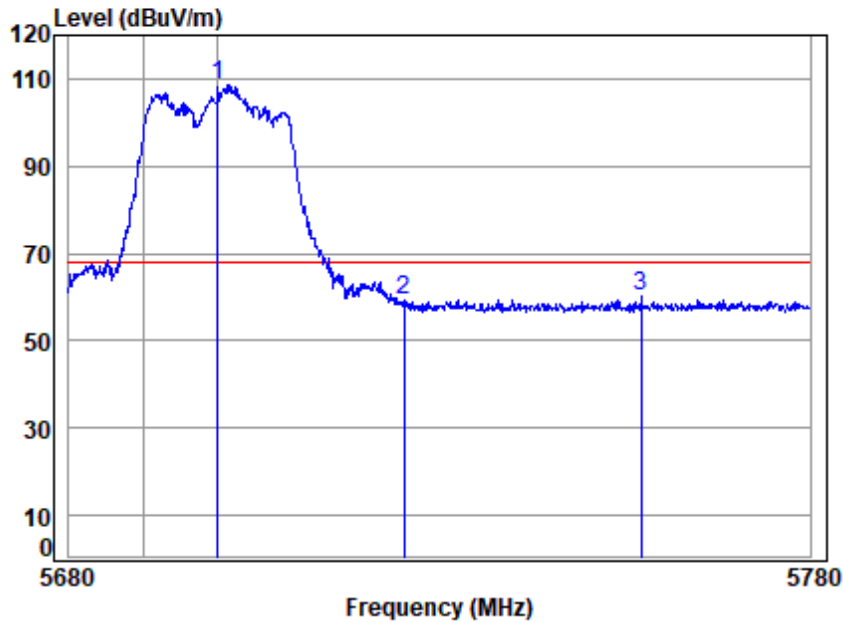
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Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5700 Band edge

: 5GWIFI MIMO 11AX20

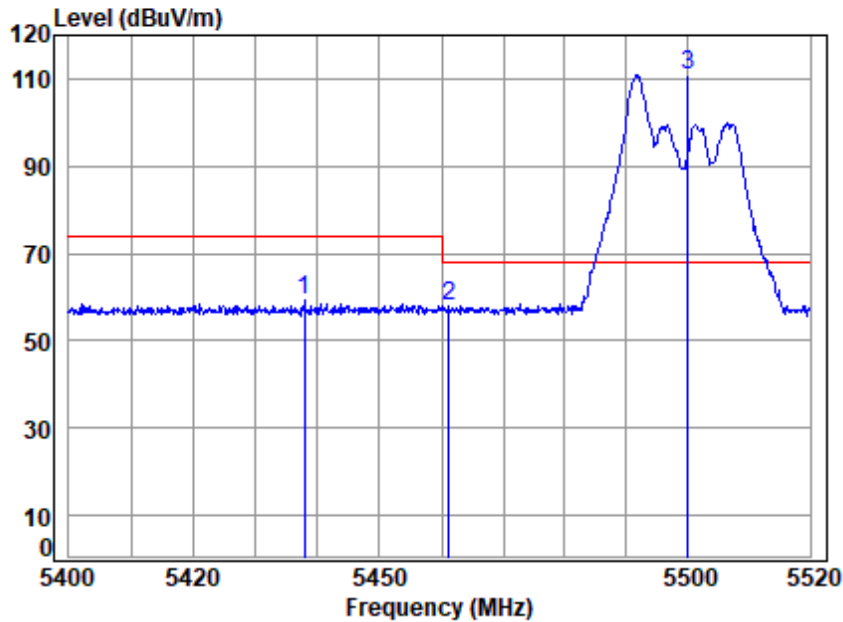
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	95.61	108.75	68.20	40.55	peak
2	5725.000	10.68	33.25	30.61	45.78	59.10	68.20	-9.10	peak
3	5757.046	10.82	33.31	30.60	46.49	60.02	68.20	-8.18	peak



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Test Mode: 11; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5437.875	10.60	32.88	30.72	46.63	59.39	74.00	-14.61 peak
2	5461.230	10.60	32.90	30.72	45.37	58.15	68.20	-10.05 peak
3	pp 5500.000	10.58	32.90	30.70	98.00	110.78	68.20	42.58 peak



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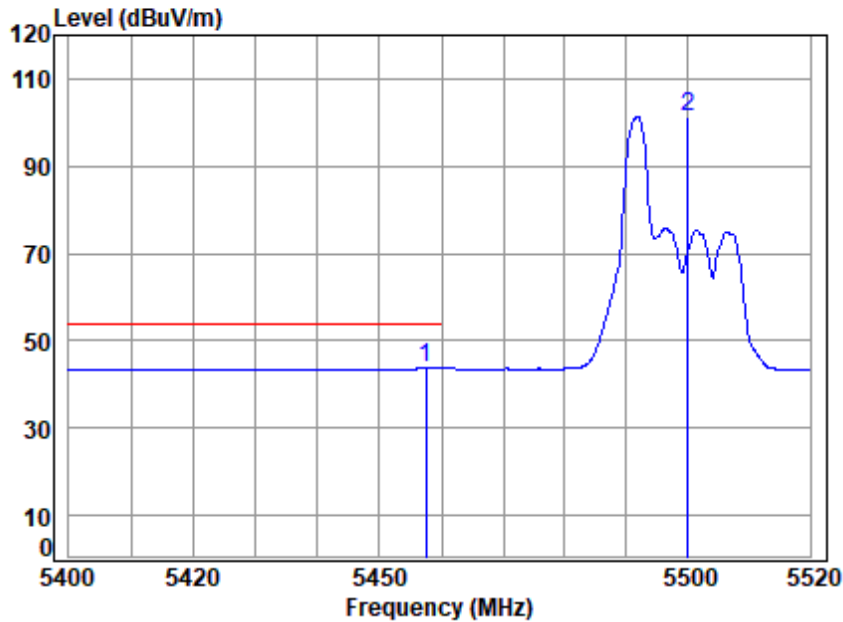
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Test Mode: 11; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5457.511	10.60	32.90	30.72	30.86	43.64	54.00	-10.36	Average
2	5500.000	10.58	32.90	30.70	88.49	101.27	-----	-----	Average



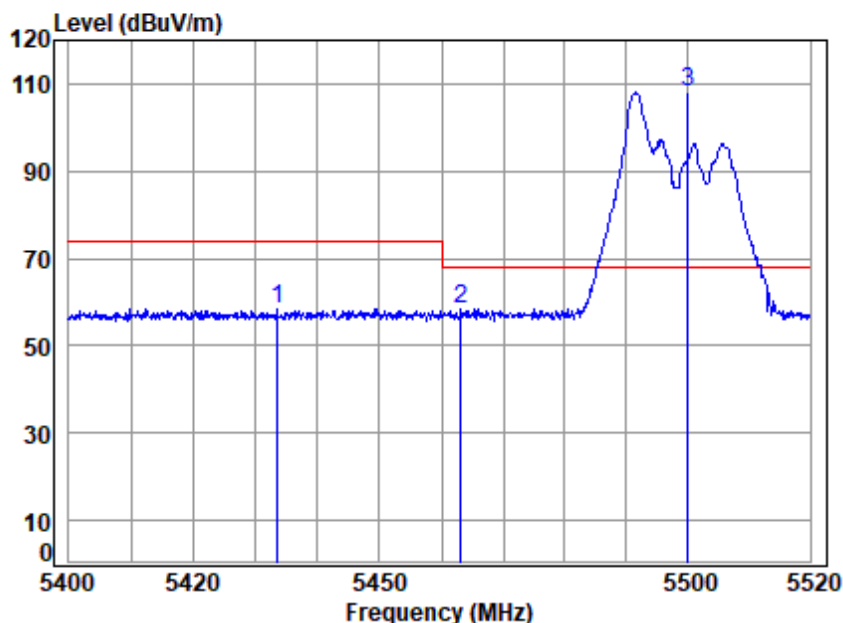
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Test Mode: 11; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5433.454	10.61	32.87	30.73	45.55	58.30	74.00	-15.70	peak
5463.151	10.59	32.90	30.71	45.58	58.36	68.20	-9.84	peak
5500.000	10.58	32.90	30.70	95.16	107.94	68.20	39.74	peak



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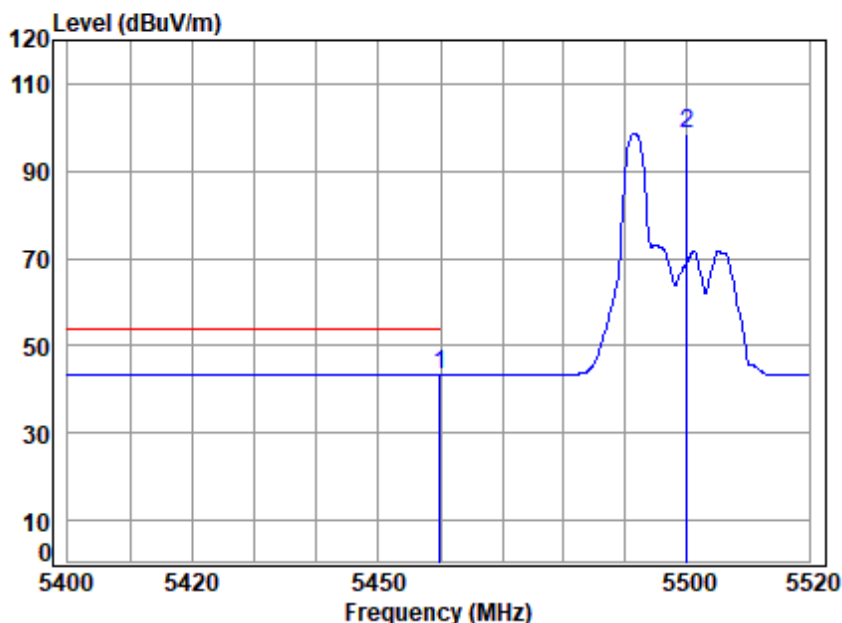
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 11; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5500 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp 5459.910	10.60	32.90	30.72	30.68	43.46	54.00	-10.54	Average	
2 5500.000	10.58	32.90	30.70	85.78	98.56	-----	-----	Average	



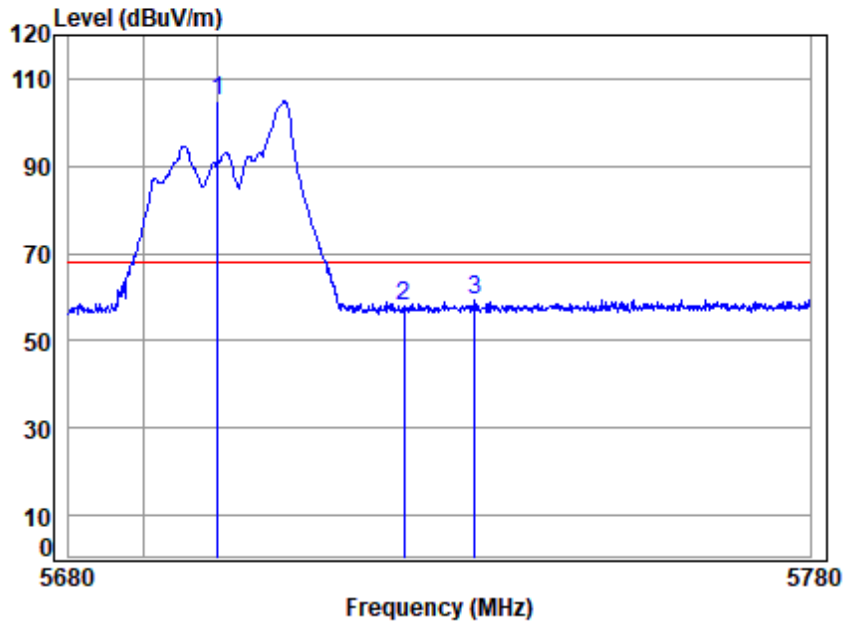
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Test Mode: 11; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

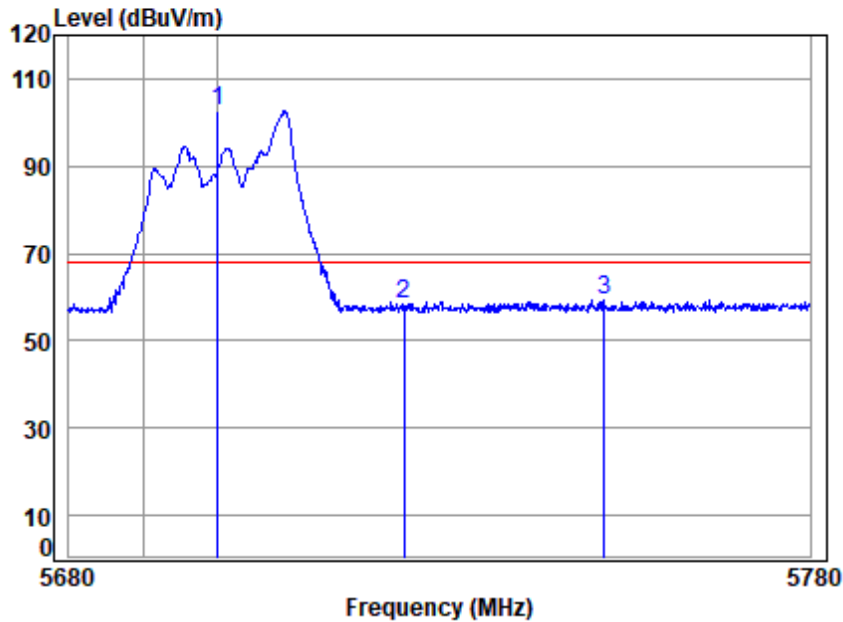
Mode : 5700 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	91.71	104.85	68.20	36.65	peak
2	5725.000	10.68	33.25	30.61	44.43	57.75	68.20	-10.45	peak
3	5734.584	10.72	33.27	30.61	46.15	59.53	68.20	-8.67	peak



Test Mode: 11; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

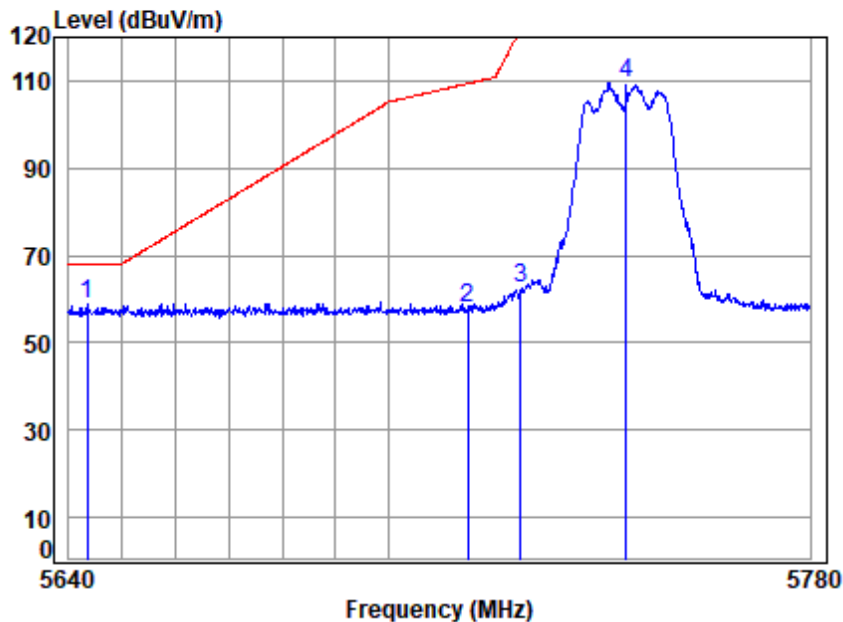
Mode : 5700 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	89.56	102.70	68.20	34.50	peak
2	5725.000	10.68	33.25	30.61	44.88	58.20	68.20	-10.00	peak
3	5752.024	10.80	33.30	30.60	45.79	59.29	68.20	-8.91	peak



Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11A

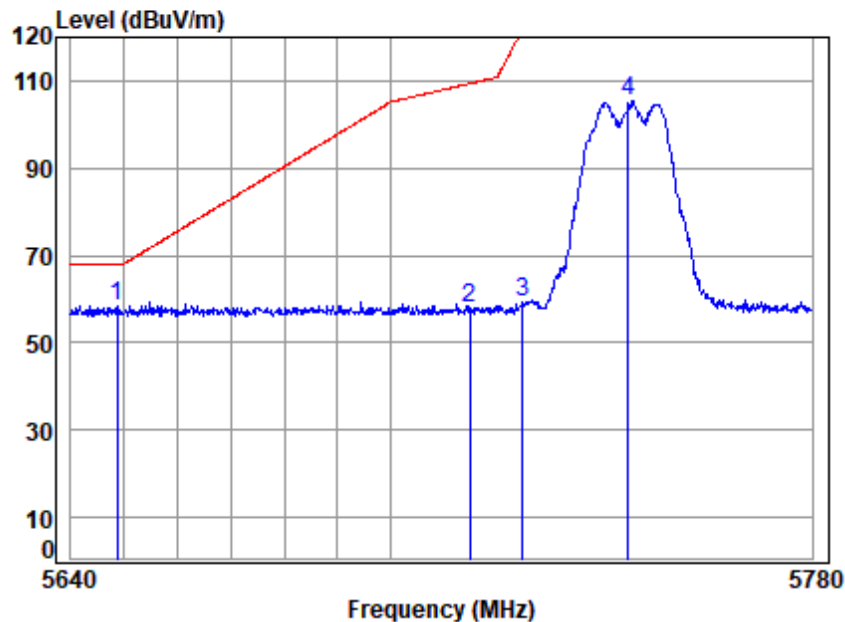
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5643.458	10.48	33.09	30.64	45.96	58.89	68.20	-9.31	peak
2 5715.000	10.63	33.23	30.61	44.89	58.14	109.40	-51.26	peak
3 5725.000	10.68	33.25	30.61	49.34	62.66	122.20	-59.54	peak
4 5745.000	10.77	33.29	30.60	95.95	109.41	-----	-----	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5648.719	10.48	33.10	30.64	45.55	58.49	68.20	-9.71	peak	
2 5715.000	10.63	33.23	30.61	44.81	58.06	109.40	-51.34	peak	
3 5725.000	10.68	33.25	30.61	46.19	59.51	122.20	-62.69	peak	
4 5745.000	10.77	33.29	30.60	91.89	105.35	-----	-----	peak	



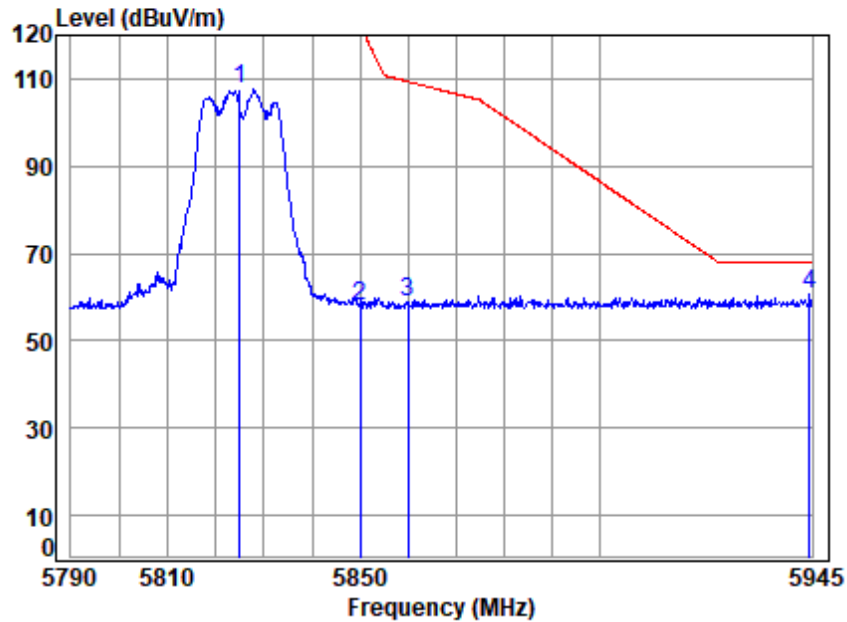
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 Band edge
: 5GWIFI MIMO 11A

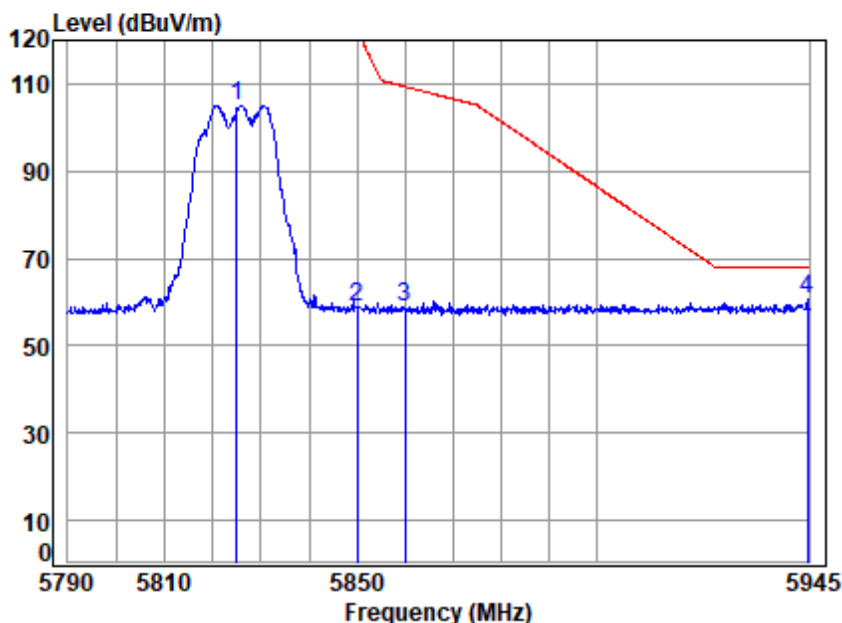
		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	93.56	107.48	-----	-----	peak
2	5850.000	10.95	33.60	30.56	43.91	57.90	122.20	-64.30	peak
3	5860.000	10.94	33.58	30.56	44.74	58.70	109.40	-50.70	peak
4 pp	5944.529	10.85	33.59	30.52	46.77	60.69	68.20	-7.51	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11A

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	10.99	33.50	30.57	91.24	105.16	-----	-----	peak
2 5850.000	10.95	33.60	30.56	44.75	58.74	122.20	-63.46	peak
3 5860.000	10.94	33.58	30.56	44.71	58.67	109.40	-50.73	peak
4 pp 5944.686	10.85	33.59	30.52	46.94	60.86	68.20	-7.34	peak



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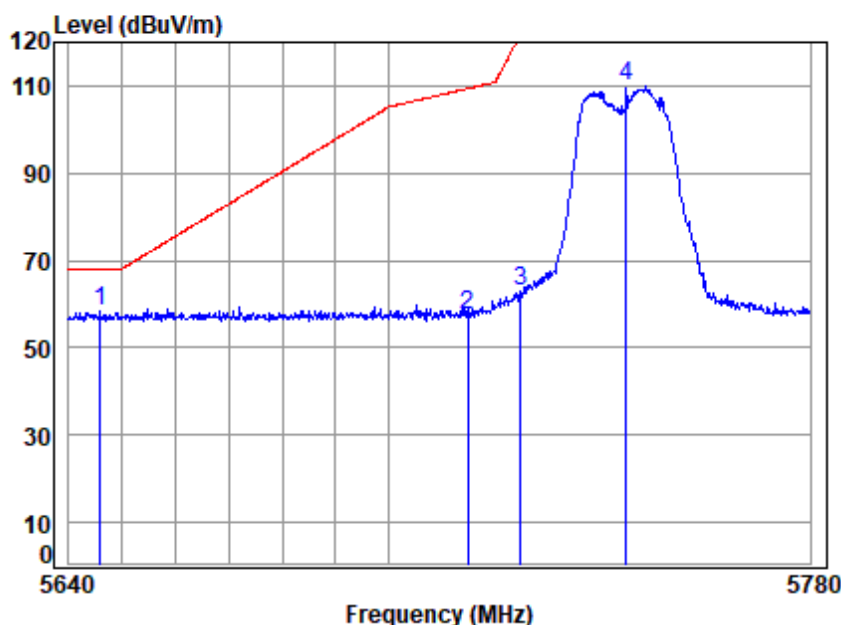
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5645.811	10.48	33.09	30.64	45.42	58.35	68.20	-9.85	peak
2 5715.000	10.63	33.23	30.61	44.33	57.58	109.40	-51.82	peak
3 5725.000	10.68	33.25	30.61	49.63	62.95	122.20	-59.25	peak
4 5745.000	10.77	33.29	30.60	96.38	109.84	-----	-----	peak



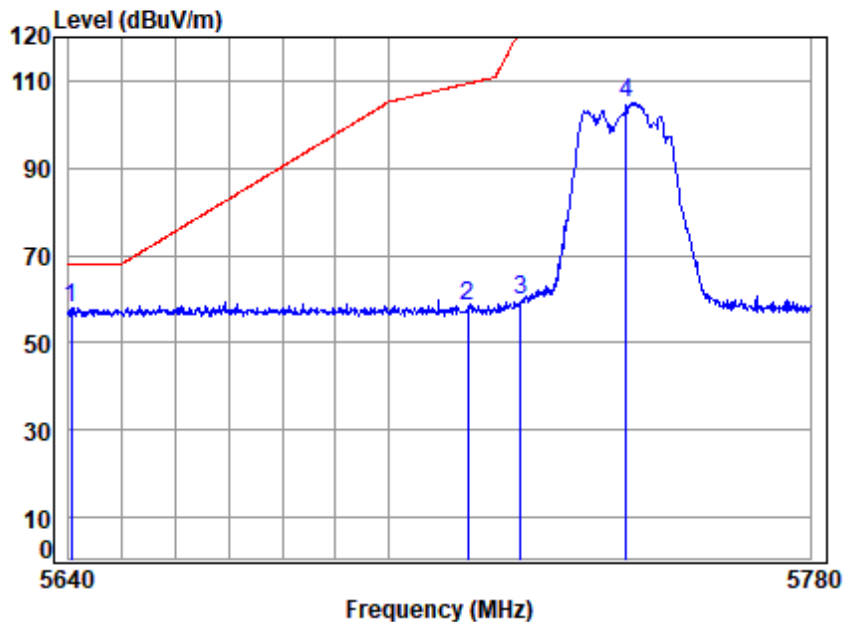
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11AC20

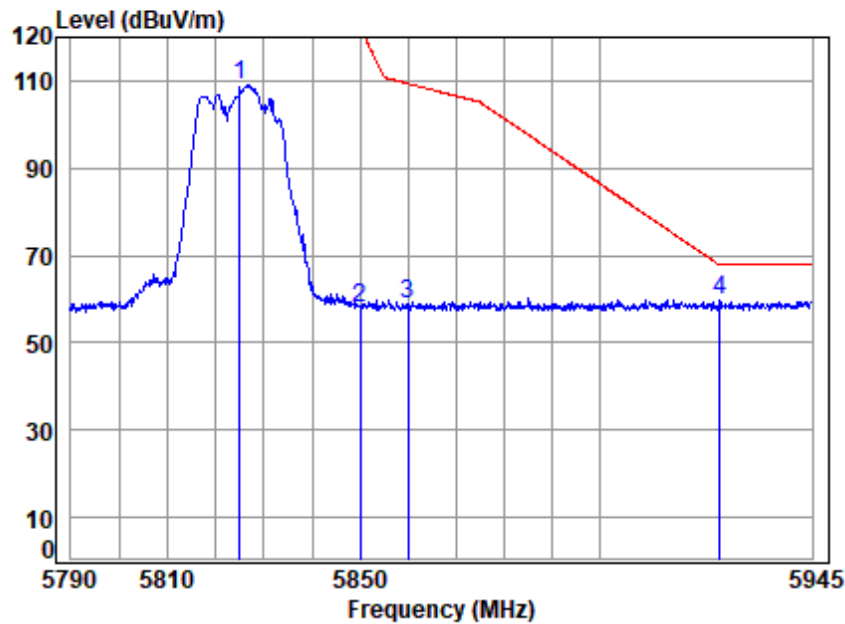
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5640.415	10.47	33.08	30.64	44.96	57.87	68.20	-10.33	peak
2 5715.000	10.63	33.23	30.61	44.99	58.24	109.40	-51.16	peak
3 5725.000	10.68	33.25	30.61	46.28	59.60	122.20	-62.60	peak
4 5745.000	10.77	33.29	30.60	91.42	104.88	-----	-----	peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AC20

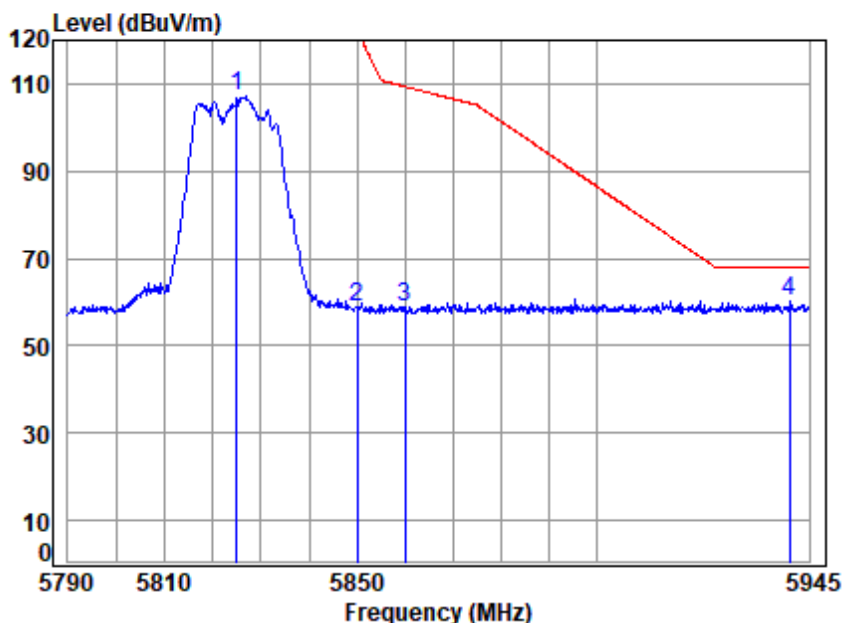
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	95.23	109.15	-----	-----	peak
2	5850.000	10.95	33.60	30.56	43.80	57.79	122.20	-64.41	peak
3	5860.000	10.94	33.58	30.56	44.94	58.90	109.40	-50.50	peak
4 pp	5925.557	10.87	33.55	30.53	46.03	59.92	68.20	-8.28	peak



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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AC20

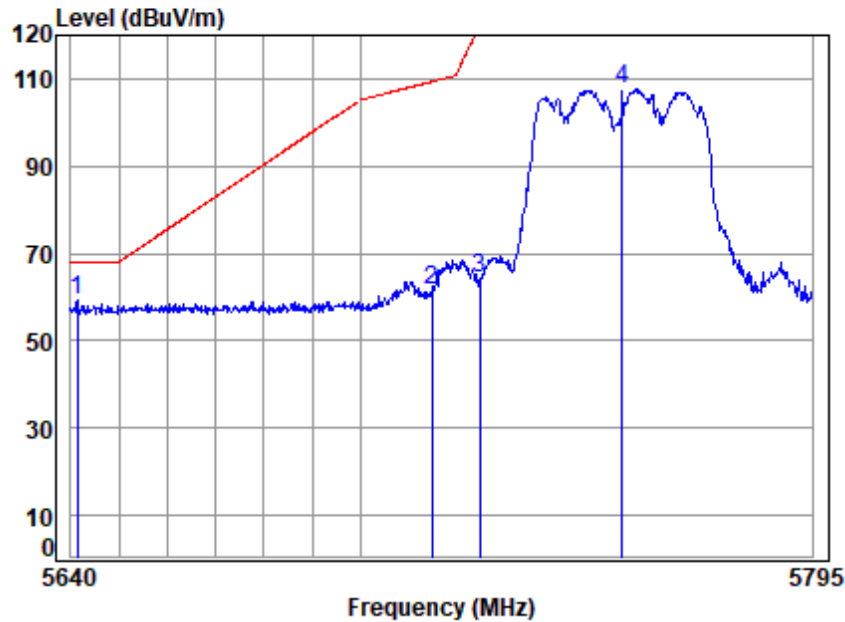
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	10.99	33.50	30.57	93.15	107.07	-----	----- peak
2 5850.000	10.95	33.60	30.56	44.84	58.83	122.20	-63.37 peak
3 5860.000	10.94	33.58	30.56	44.84	58.80	109.40	-50.60 peak
4 pp 5940.918	10.86	33.58	30.52	46.19	60.11	68.20	-8.09 peak



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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5755 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5641.376	10.47	33.08	30.64	46.32	59.23	68.20	-8.97	peak
2 5715.000	10.63	33.23	30.61	48.15	61.40	109.40	-48.00	peak
3 5725.000	10.68	33.25	30.61	50.92	64.24	122.20	-57.96	peak
4 5755.000	10.81	33.31	30.60	94.05	107.57	-----	-----	peak



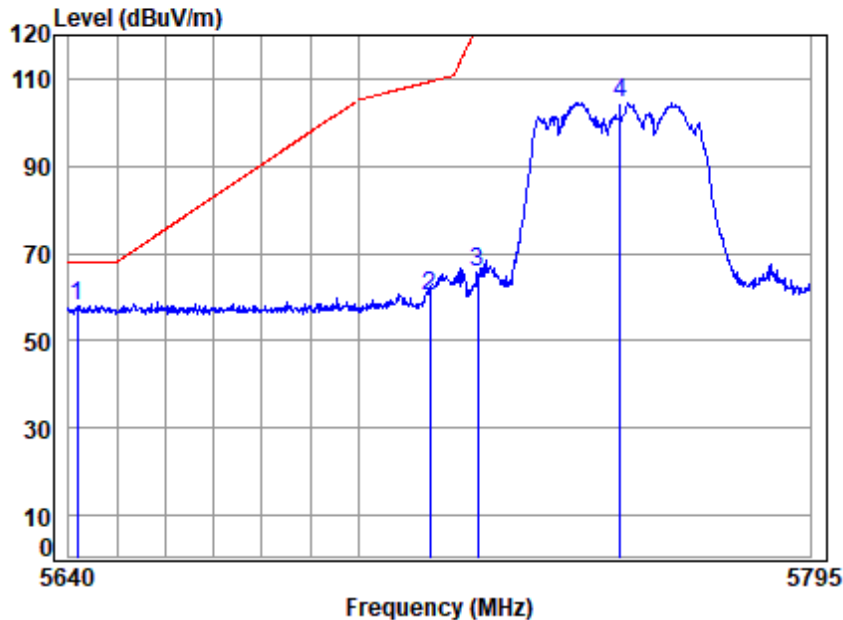
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5755 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5641.682	10.47	33.08	30.64	44.98	57.89	68.20	-10.31	peak
2	5715.000	10.63	33.23	30.61	47.19	60.44	109.40	-48.96	peak
3	5725.000	10.68	33.25	30.61	52.49	65.81	122.20	-56.39	peak
4	5755.000	10.81	33.31	30.60	91.19	104.71	-----	-----	peak



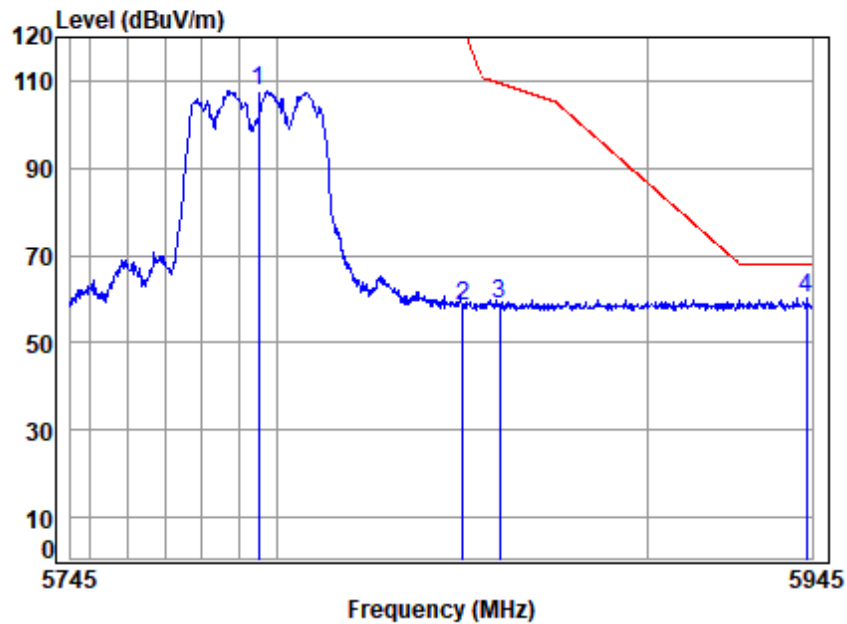
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5795 Band edge

: 5GWIFI MIMO 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	93.87	107.68	-----	-----	peak
2	5850.000	10.95	33.60	30.56	44.50	58.49	122.20	-63.71	peak
3	5860.000	10.94	33.58	30.56	44.87	58.83	109.40	-50.57	peak
4 pp	5943.373	10.86	33.59	30.52	46.17	60.10	68.20	-8.10	peak



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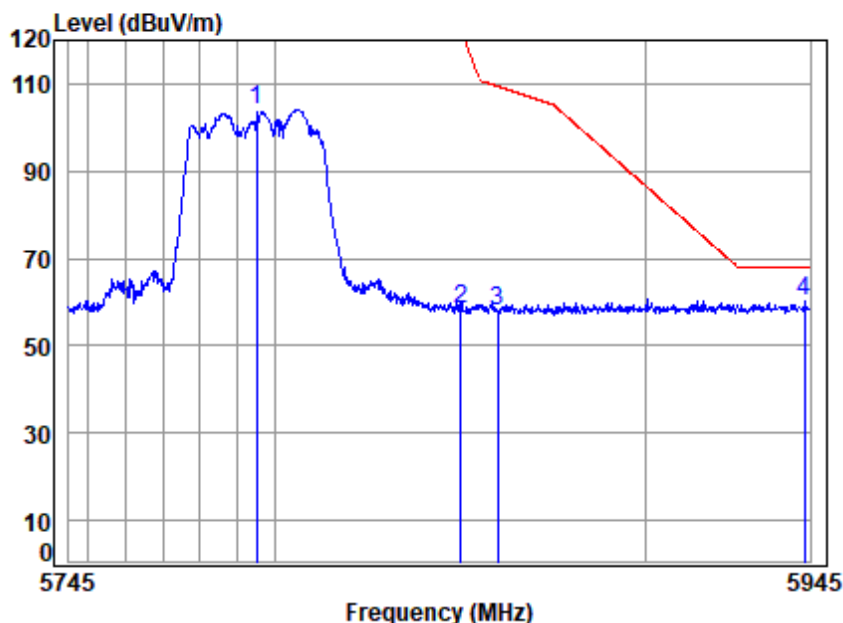
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5795 Band edge

: 5GWIFI MIMO 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5795.000	11.00	33.39	30.58	90.34	104.15	-----	-----	peak
2	5850.000	10.95	33.60	30.56	44.30	58.29	122.20	-63.91	peak
3	5860.000	10.94	33.58	30.56	44.05	58.01	109.40	-51.39	peak
4 pp	5943.373	10.86	33.59	30.52	46.29	60.22	68.20	-7.98	peak



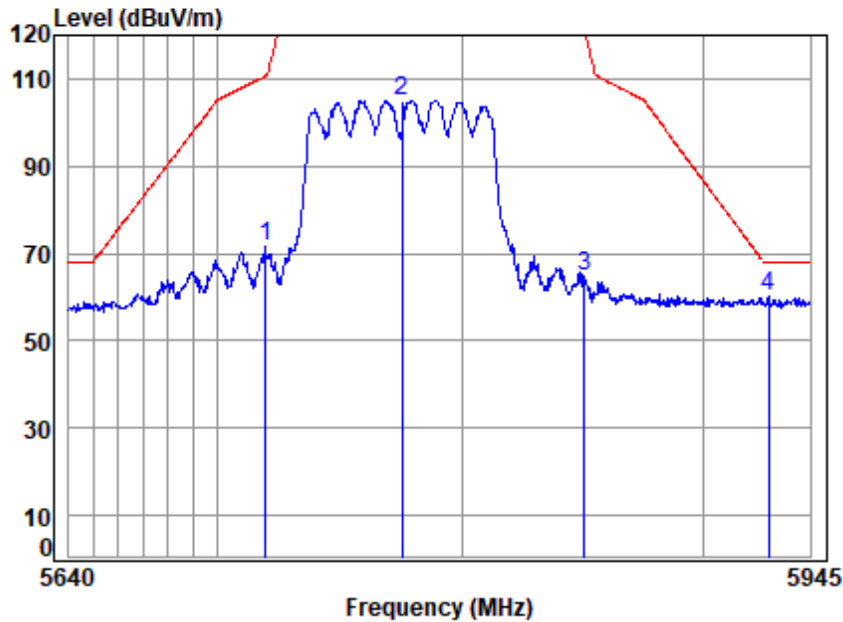
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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5775 Band edge

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5719.267	10.65	33.24	30.61	58.35	71.63	110.60	-38.97 peak
2	5775.000	10.91	33.35	30.59	91.42	105.09	-----	----- peak
3	5850.575	10.95	33.60	30.56	50.78	64.77	120.89	-56.12 peak
4	pp 5927.492	10.87	33.55	30.53	46.35	60.24	68.20	-7.96 peak



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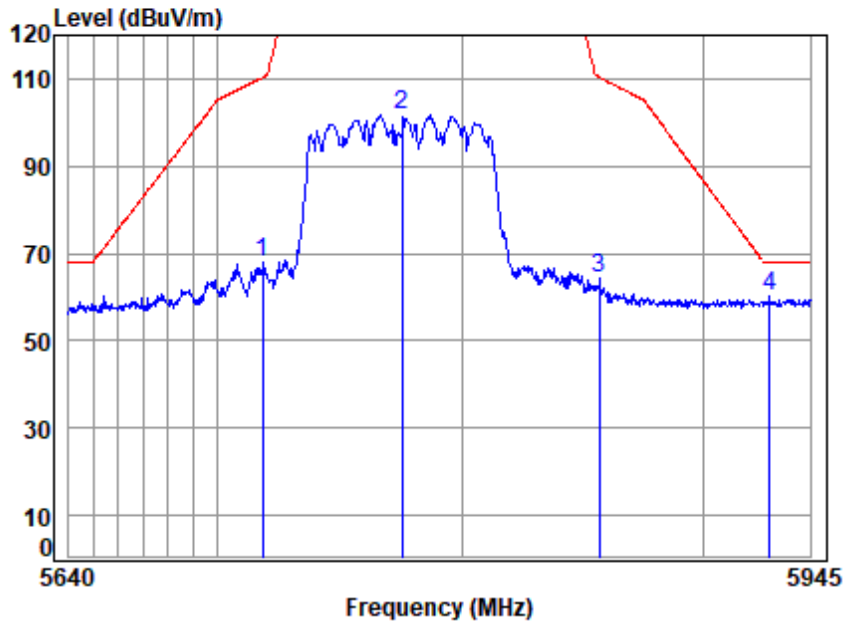
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5775 Band edge

: 5GWIFI MIMO 11AC80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5718.364	10.64	33.24	30.61	54.67	67.94	110.34	-42.40 peak
2	5775.000	10.91	33.35	30.59	88.16	101.83	-----	----- peak
3	5856.741	10.95	33.59	30.56	50.41	64.39	110.31	-45.92 peak
4	pp 5928.117	10.87	33.56	30.53	46.12	60.02	68.20	-8.18 peak



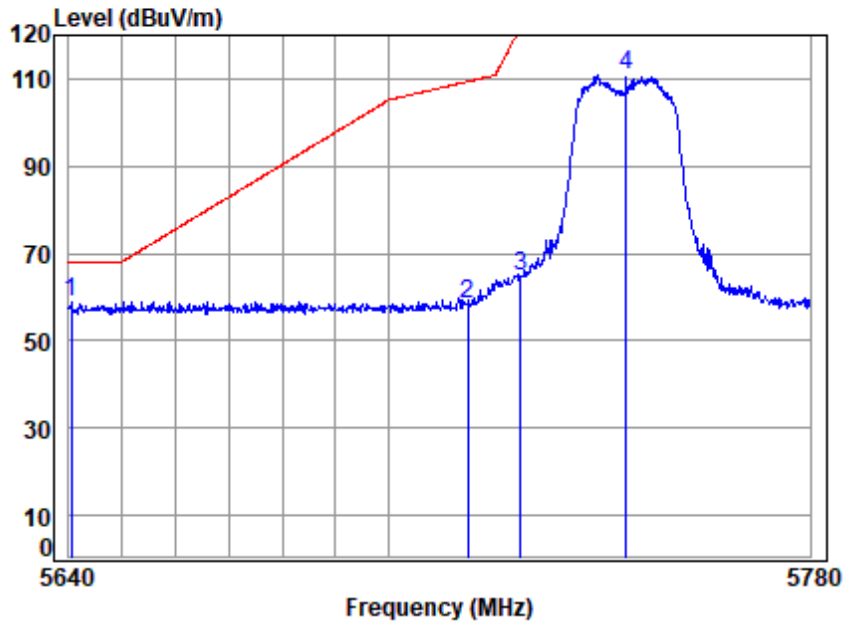
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Test Mode: 12; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5640.553	10.47	33.08	30.64	45.89	58.80	68.20	-9.40	peak
2 5715.000	10.63	33.23	30.61	45.21	58.46	109.40	-50.94	peak
3 5725.000	10.68	33.25	30.61	51.65	64.97	122.20	-57.23	peak
4 5745.000	10.77	33.29	30.60	97.19	110.65	-----	-----	peak



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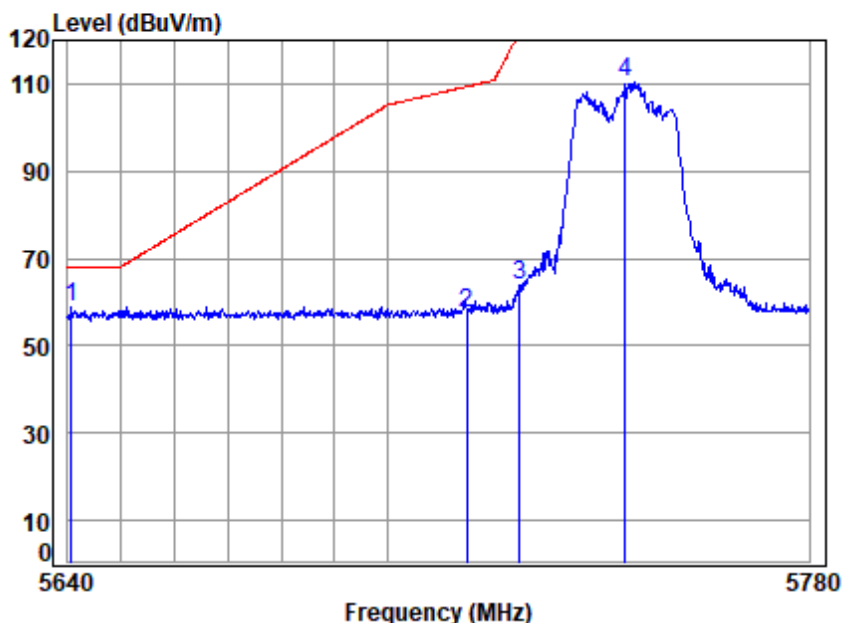
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Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5640.691	10.47	33.08	30.64	45.89	58.80	68.20	-9.40	peak
2	5715.000	10.63	33.23	30.61	44.21	57.46	109.40	-51.94	peak
3	5725.000	10.68	33.25	30.61	50.73	64.05	122.20	-58.15	peak
4	5745.000	10.77	33.29	30.60	97.10	110.56	-----	-----	peak



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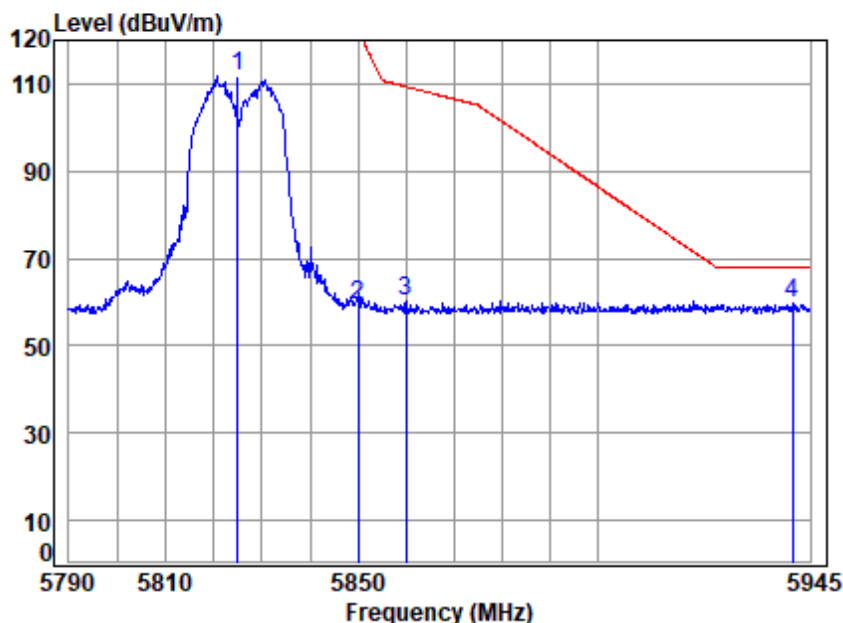
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Report No.: SZCR240300076704

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000	10.99	33.50	30.57	97.97	111.89	-----	-----	peak
5850.000	10.95	33.60	30.56	45.11	59.10	122.20	-63.10	peak
5860.000	10.94	33.58	30.56	46.08	60.04	109.40	-49.36	peak
5941.232	10.86	33.58	30.52	45.65	59.57	68.20	-8.63	peak



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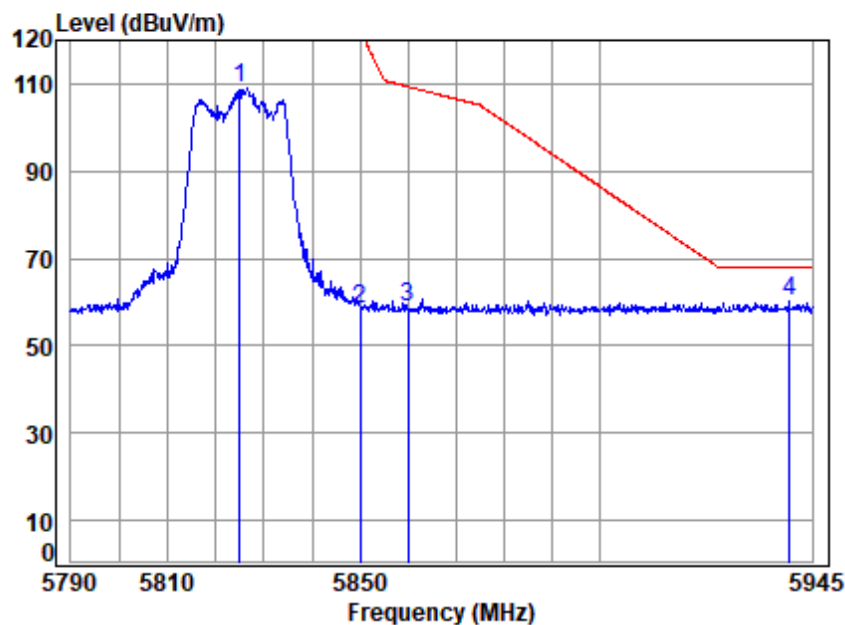
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076704

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 5825.000	10.99	33.50	30.57	95.12	109.04	-----	-----	peak	
2 5850.000	10.95	33.60	30.56	44.62	58.61	122.20	-63.59	peak	
3 5860.000	10.94	33.58	30.56	44.81	58.77	109.40	-50.63	peak	
4 pp 5940.133	10.86	33.58	30.52	46.48	60.40	68.20	-7.80	peak	



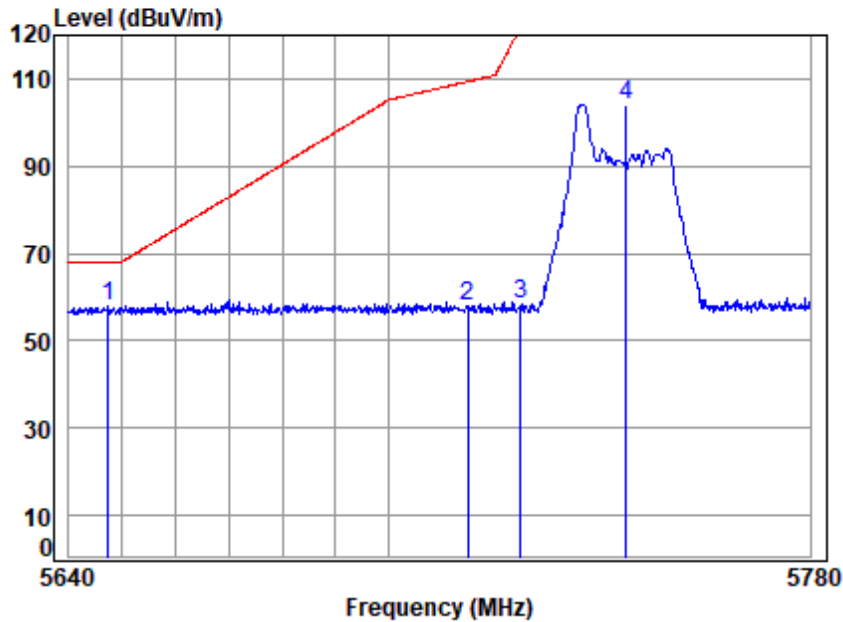
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Test Mode: 12; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5745 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

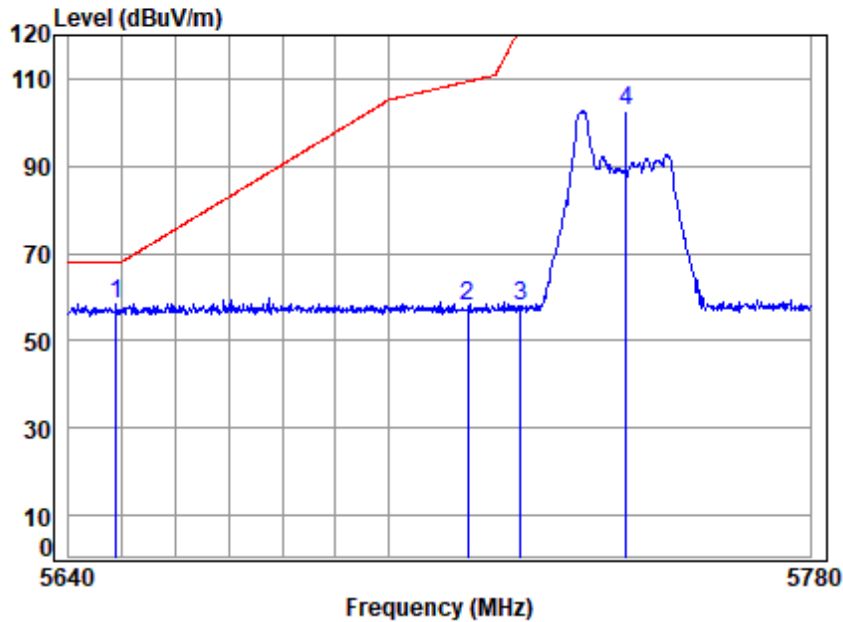
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5647.334	10.48	33.09	30.64	45.05	57.98	68.20	-10.22	peak
2	5715.000	10.63	33.23	30.61	44.50	57.75	109.40	-51.65	peak
3	5725.000	10.68	33.25	30.61	45.21	58.53	122.20	-63.67	peak
4	5745.000	10.77	33.29	30.60	90.73	104.19	-----	-----	peak



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Test Mode: 12; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

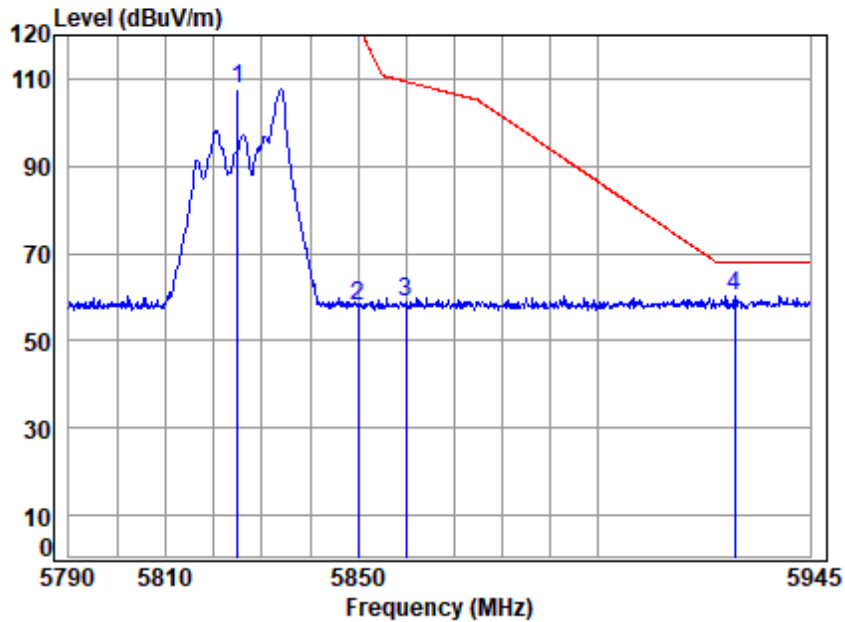
Mode : 5745 Band edge

: 5GWIFI MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5648.857	10.48	33.10	30.64	45.59	58.53	68.20	-9.67	peak
2	5715.000	10.63	33.23	30.61	44.61	57.86	109.40	-51.54	peak
3	5725.000	10.68	33.25	30.61	44.45	57.77	122.20	-64.43	peak
4	5745.000	10.77	33.29	30.60	89.22	102.68	-----	-----	peak



Test Mode: 12; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	10.99	33.50	30.57	93.64	107.56	-----	-----	peak
2 5850.000	10.95	33.60	30.56	43.98	57.97	122.20	-64.23	peak
3 5860.000	10.94	33.58	30.56	44.90	58.86	109.40	-50.54	peak
4 pp 5929.002	10.87	33.56	30.53	46.33	60.23	68.20	-7.97	peak



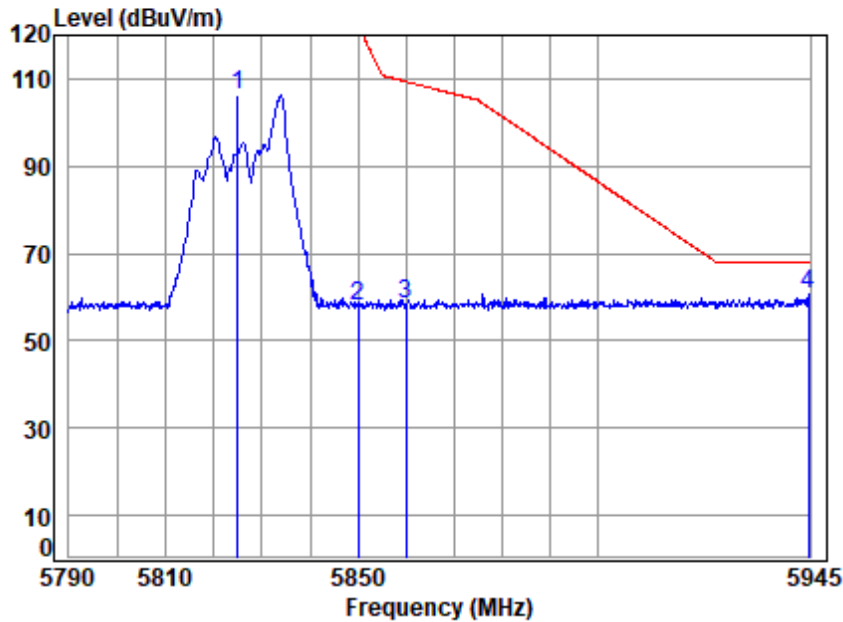
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Test Mode: 12; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5825 Band edge

: 5GWIFI MIMO 11AX20_RU26_8

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000	10.99	33.50	30.57	92.24	106.16	-----	-----	peak
5850.000	10.95	33.60	30.56	43.90	57.89	122.20	-64.31	peak
5860.000	10.94	33.58	30.56	44.36	58.32	109.40	-51.08	peak
5944.686	10.85	33.59	30.52	46.70	60.62	68.20	-7.58	peak



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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.



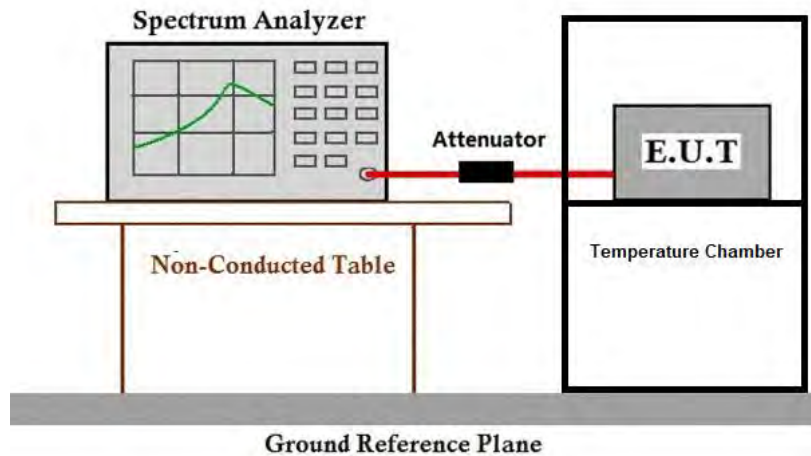
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

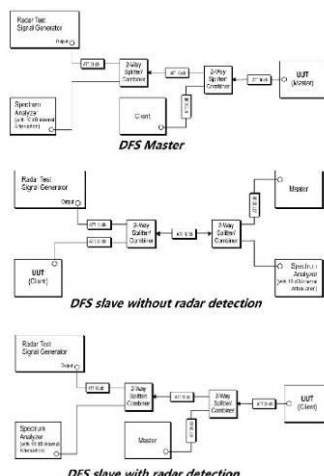


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7.12.2 Test Setup Diagram



7.12.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar



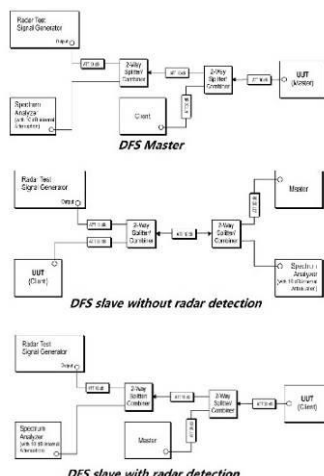
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7.13.2 Test Setup Diagram



7.13.3 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

8 Test Setup Photo

Please refer to Appendix A.2 - WLAN Setup Photos.



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9 EUT Constructional Details (EUT Photos)

Please refer to Appendix_EUTPhoto_SZCR2403000767WM.



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10 Appendix

Remark: for all the test data appendix, due to the test software design, ant1 means antenna chain9, ant2 means antenna chain10.

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	2.097	2.114	99.20	0.04	0.00
		5200	/	/	2.097	2.114	99.20	0.04	0.03
		5240	/	/	2.097	2.113	99.24	0.03	0.03
		5260	/	/	2.097	2.114	99.20	0.04	0.03
		5300	/	/	2.097	2.113	99.24	0.03	0.03
		5320	/	/	2.096	2.113	99.20	0.04	0.07
		5500	/	/	2.097	2.114	99.20	0.04	0.03
		5580	/	/	2.096	2.113	99.20	0.04	0.03
		5700	/	/	2.097	2.113	99.24	0.03	0.03
		5745	/	/	2.096	2.113	99.20	0.04	0.00
		5785	/	/	2.096	2.113	99.20	0.04	0.03
		5825	/	/	2.097	2.114	99.20	0.04	0.03
802.11n (HT20)	MIMO	5180	/	/	5.428	5.446	99.67	0.01	0.04
		5200	/	/	5.428	5.445	99.69	0.01	0.03
		5240	/	/	5.428	5.445	99.69	0.01	0.00
		5260	/	/	5.428	5.446	99.67	0.01	0.04
		5300	/	/	5.428	5.446	99.67	0.01	0.04
		5320	/	/	5.429	5.445	99.71	0.01	0.03
		5500	/	/	5.428	5.446	99.67	0.01	0.04
		5580	/	/	5.428	5.445	99.69	0.01	0.00
		5700	/	/	5.428	5.445	99.69	0.01	0.00
		5745	/	/	5.429	5.445	99.71	0.01	0.00
		5785	/	/	5.428	5.447	99.65	0.02	0.03
		5825	/	/	5.428	5.446	99.67	0.01	0.04
802.11n (HT40)	MIMO	5190	/	/	5.429	5.445	99.71	0.01	0.03
		5230	/	/	5.428	5.444	99.71	0.01	0.04
		5270	/	/	5.428	5.444	99.71	0.01	0.00



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		5310	/	/	5.428	5.444	99.71	0.01	0.04
		5510	/	/	5.428	5.444	99.71	0.01	0.04
		5550	/	/	5.428	5.445	99.69	0.01	0.03
		5670	/	/	5.428	5.444	99.71	0.01	0.04
		5755	/	/	5.428	5.444	99.71	0.01	0.04
		5795	/	/	5.428	5.444	99.71	0.01	0.04
802.11ac (VHT80)	MIMO	5210	/	/	5.428	5.444	99.71	0.01	0.04
		5290	/	/	5.428	5.444	99.71	0.01	0.04
		5530	/	/	5.428	5.445	99.69	0.01	0.03
		5610	/	/	5.429	5.446	99.69	0.01	0.03
		5775	/	/	5.428	5.444	99.71	0.01	0.04
802.11ac (VHT160)	MIMO	5570	/	/	5.428	5.445	99.69	0.01	0.03
		5250	/	/	5.428	5.444	99.71	0.01	0.04
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.446	5.464	99.67	0.01	0.04
		5200	RU242	Left	5.446	5.464	99.67	0.01	0.04
		5240	RU242	Left	5.444	5.462	99.67	0.01	0.04
		5260	RU242	Left	5.444	5.462	99.67	0.01	0.04
		5300	RU242	Left	5.446	5.462	99.71	0.01	0.00
		5320	RU242	Left	5.444	5.462	99.67	0.01	0.04
		5500	RU242	Left	5.444	5.462	99.67	0.01	0.04
		5580	RU242	Left	5.445	5.462	99.69	0.01	0.03
		5700	RU242	Left	5.445	5.462	99.69	0.01	0.00
		5745	RU242	Left	5.445	5.462	99.69	0.01	0.00
		5785	RU242	Left	5.445	5.461	99.71	0.01	0.00
		5825	RU242	Left	5.444	5.462	99.67	0.01	0.04
802.11ax (HEW40)	MIMO	5190	RU484	Left	5.445	5.462	99.69	0.01	0.03
		5230	RU484	Left	5.446	5.462	99.71	0.01	0.04
		5270	RU484	Left	5.445	5.462	99.69	0.01	0.03
		5310	RU484	Left	5.445	5.462	99.69	0.01	0.03
		5510	RU484	Left	5.444	5.460	99.71	0.01	0.04
		5550	RU484	Left	5.444	5.460	99.71	0.01	0.00
		5670	RU484	Left	5.445	5.462	99.69	0.01	0.03
		5755	RU484	Left	5.444	5.460	99.71	0.01	0.00
		5795	RU484	Left	5.444	5.460	99.71	0.01	0.00
802.11ax (HEW80)	MIMO	5210	RU996	Left	5.444	5.460	99.71	0.01	0.04
		5290	RU996	Left	5.444	5.460	99.71	0.01	0.04
		5530	RU996	Left	5.444	5.460	99.71	0.01	0.04
		5610	RU996	Left	5.444	5.460	99.71	0.01	0.04
		5775	RU996	Left	5.444	5.460	99.71	0.01	0.04
802.11ax	MIMO	5570	2xRU996	Left	5.446	5.462	99.71	0.01	0.04



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(HEW160)		5250	2xRU996	Left	5.445	5.460	99.73	0.01	0.00
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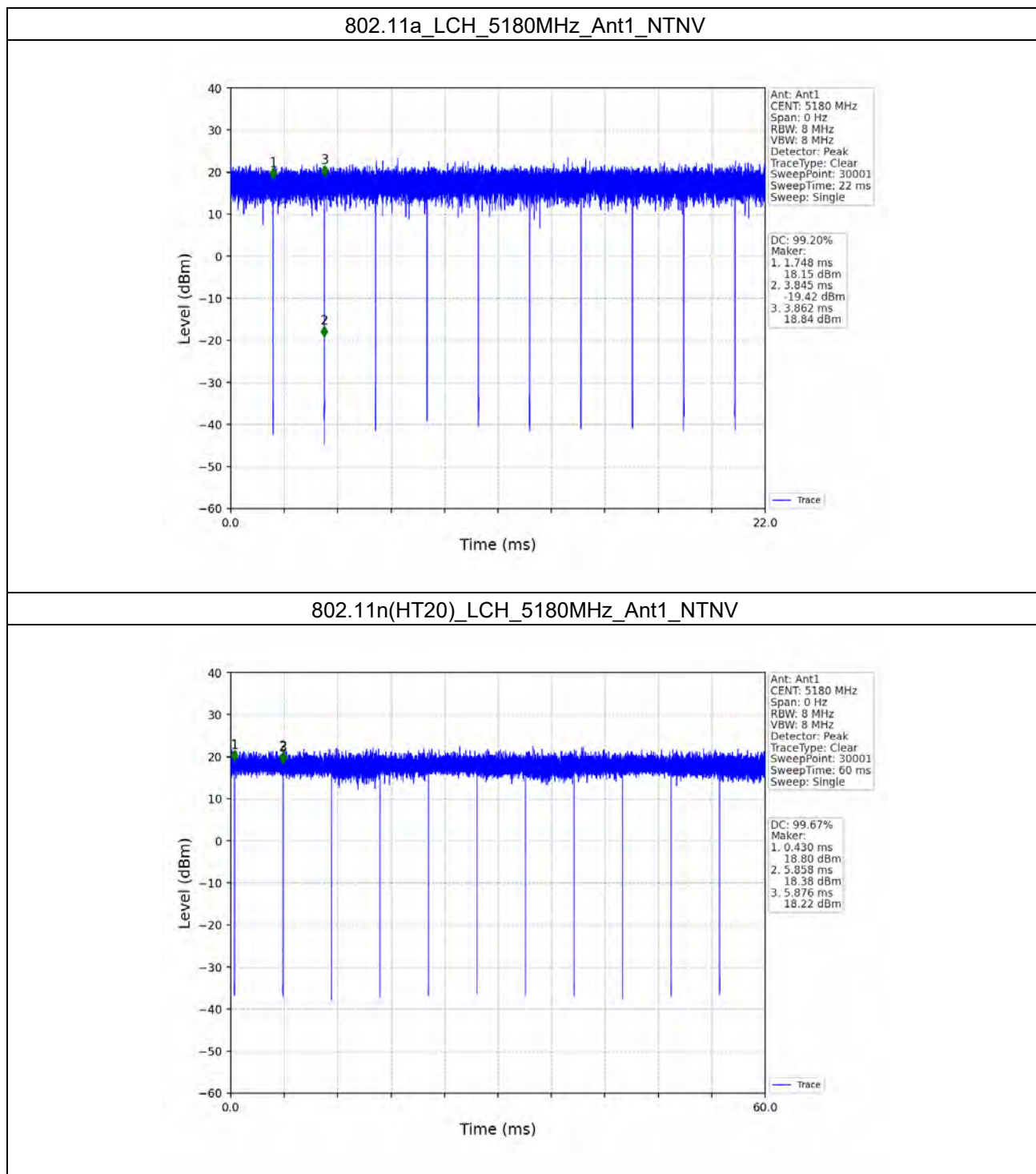
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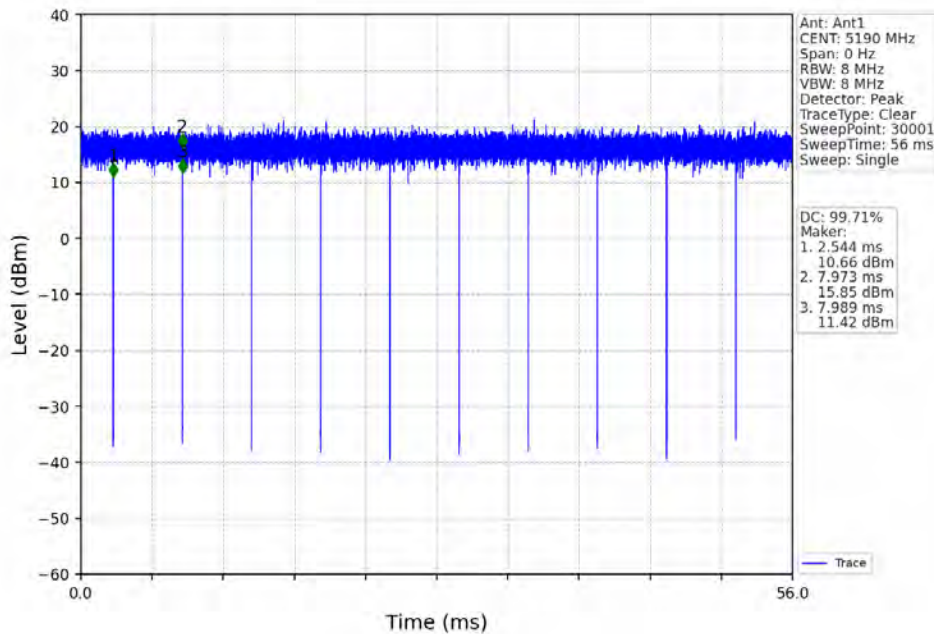
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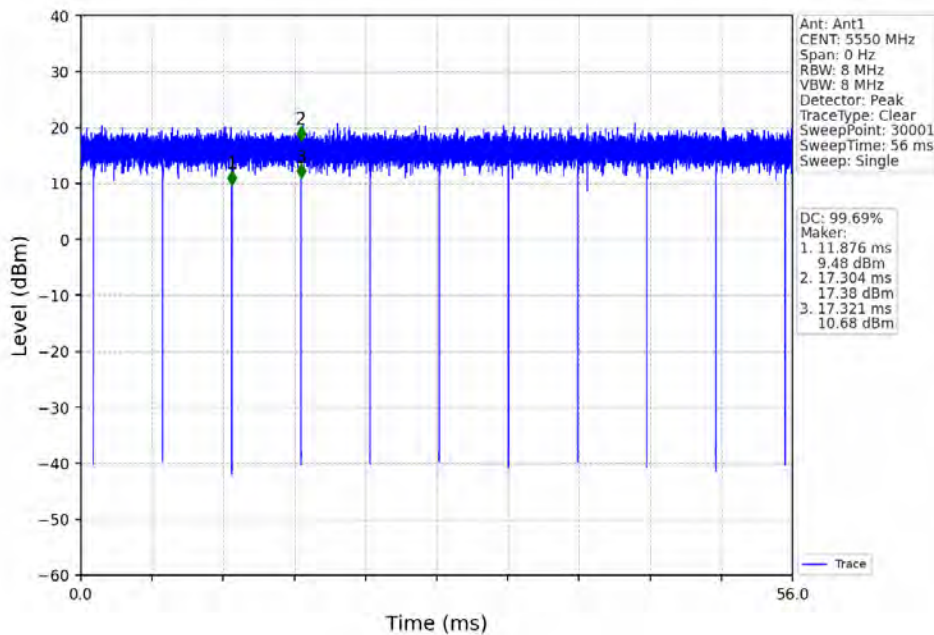
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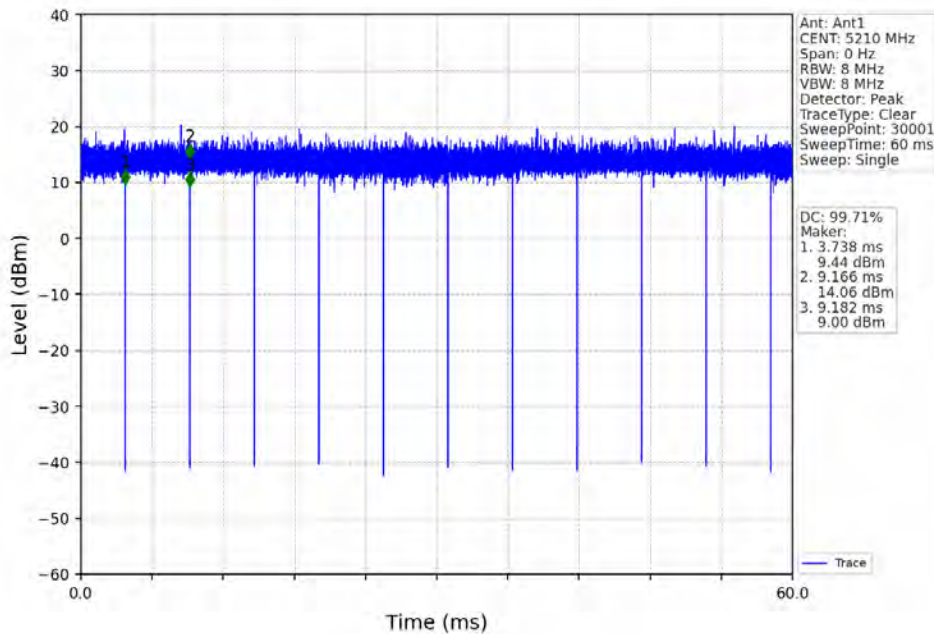
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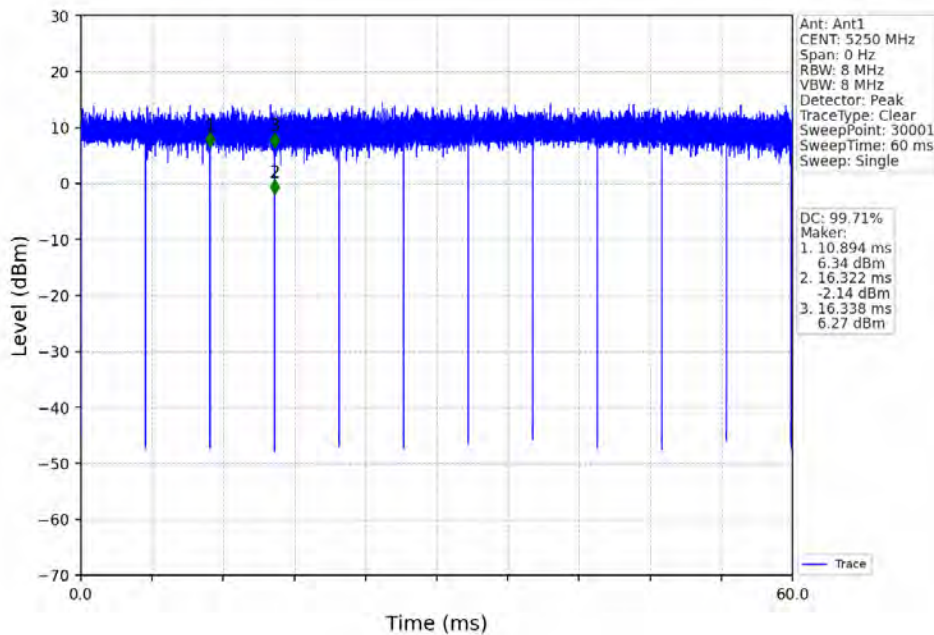
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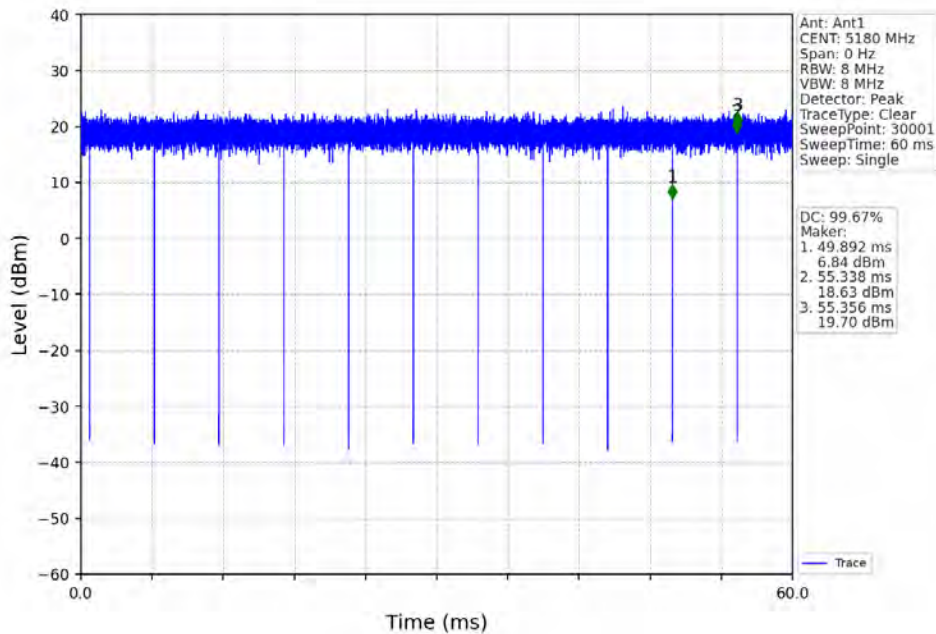
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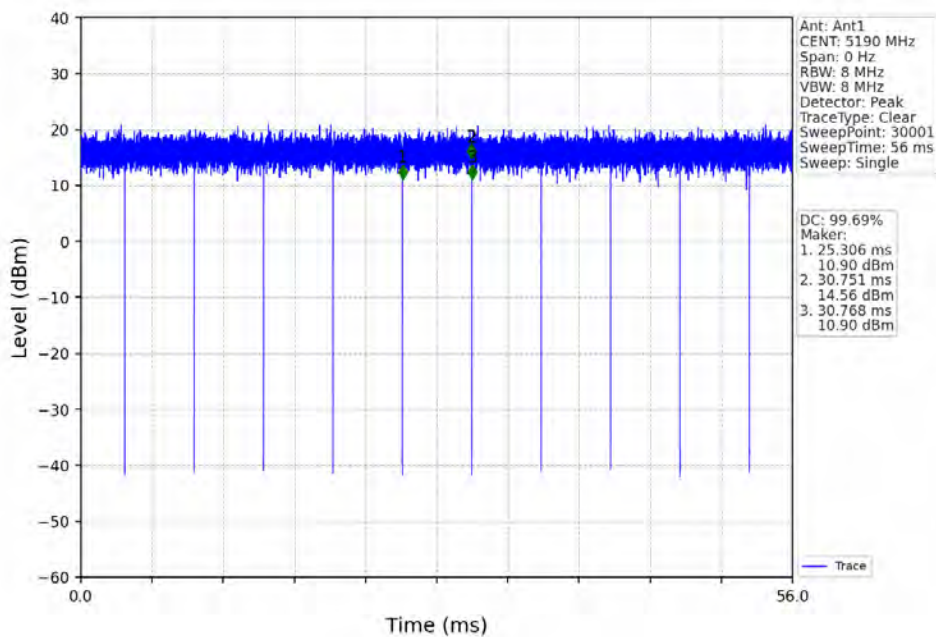
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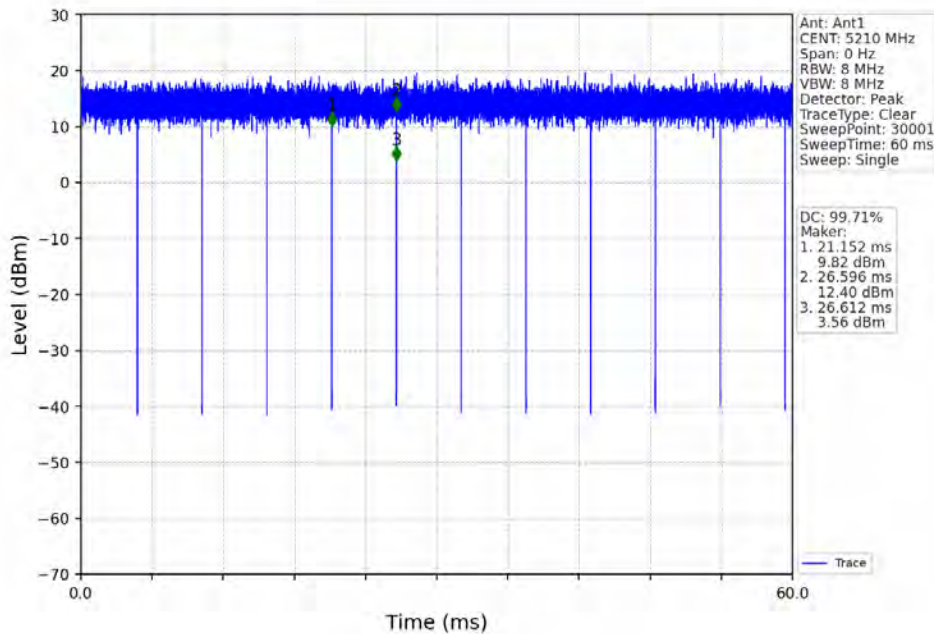
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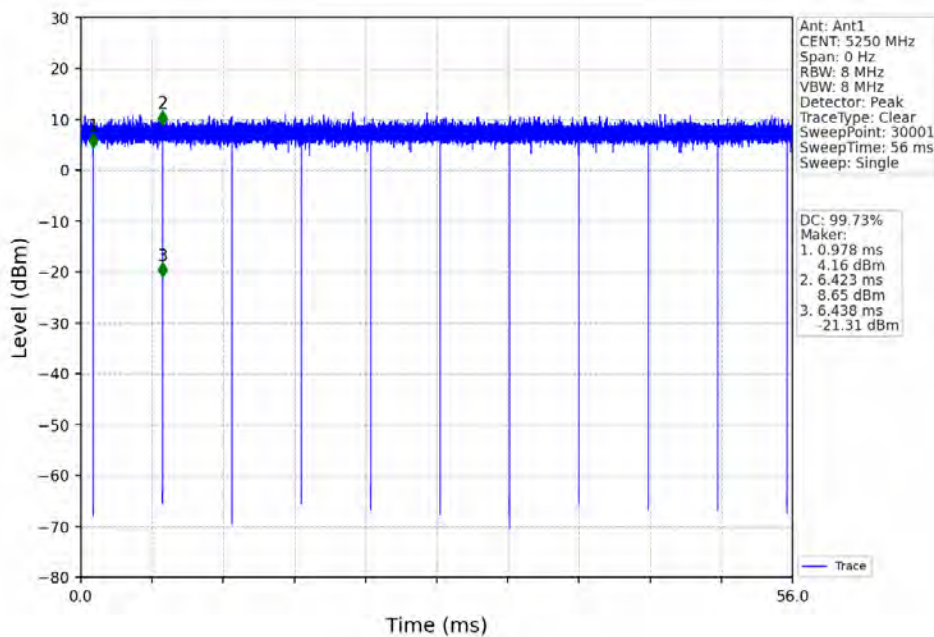
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802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_MCH_5250MHz_2xRU996_Left_Ant1_NTNV



2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	MIMO	5180	/	/	1	16.900	/	Pass
		5200	/	/	1	17.403	/	Pass
		5240	/	/	1	17.689	/	Pass
		5260	/	/	1	17.435	/	Pass
		5300	/	/	1	17.221	/	Pass
		5320	/	/	1	17.116	/	Pass
		5500	/	/	1	16.843	/	Pass
		5580	/	/	1	16.806	/	Pass
		5700	/	/	1	16.905	/	Pass
		5745	/	/	1	16.908	/	Pass
		5785	/	/	1	16.915	/	Pass
		5825	/	/	1	16.937	/	Pass
802.11n (HT20)	MIMO	5180	/	/	1	18.002	/	Pass
		5200	/	/	1	26.156	/	Pass
		5240	/	/	1	18.387	/	Pass
		5260	/	/	1	18.347	/	Pass
		5300	/	/	1	18.260	/	Pass
		5320	/	/	1	18.122	/	Pass
		5500	/	/	1	18.013	/	Pass
		5580	/	/	1	18.003	/	Pass
		5700	/	/	1	18.031	/	Pass
		5745	/	/	1	17.914	/	Pass
		5785	/	/	1	17.931	/	Pass
		5825	/	/	1	17.956	/	Pass
802.11n (HT40)	MIMO	5190	/	/	1	37.253	/	Pass
		5230	/	/	1	38.613	/	Pass
		5270	/	/	1	38.462	/	Pass
		5310	/	/	1	37.438	/	Pass
		5510	/	/	1	36.348	/	Pass
		5550	/	/	1	36.421	/	Pass
		5670	/	/	1	36.350	/	Pass

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		5755	/	/	1	36.342	/	Pass
		5795	/	/	1	36.349	/	Pass
802.11ac (VHT80)	MIMO	5210	/	/	1	78.069	/	Pass
		5290	/	/	1	77.030	/	Pass
		5530	/	/	1	76.070	/	Pass
		5610	/	/	1	76.030	/	Pass
		5775	/	/	1	76.264	/	Pass
802.11ac (VHT160)	MIMO	5570	/	/	1	155.662	/	Pass
		5250	/	/	1	159.288	/	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	1	19.229	/	Pass
		5200	RU242	Left	1	19.290	/	Pass
		5240	RU242	Left	1	19.516	/	Pass
		5260	RU242	Left	1	19.419	/	Pass
		5300	RU242	Left	1	19.354	/	Pass
		5320	RU242	Left	1	19.278	/	Pass
		5500	RU242	Left	1	19.108	/	Pass
		5580	RU242	Left	1	19.123	/	Pass
		5700	RU242	Left	1	19.144	/	Pass
		5745	RU242	Left	1	19.131	/	Pass
		5785	RU242	Left	1	19.143	/	Pass
		5825	RU242	Left	1	19.094	/	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1	38.523	/	Pass
		5230	RU484	Left	1	39.025	/	Pass
		5270	RU484	Left	1	38.887	/	Pass
		5310	RU484	Left	1	38.641	/	Pass
		5510	RU484	Left	1	37.981	/	Pass
		5550	RU484	Left	1	38.066	/	Pass
		5670	RU484	Left	1	38.337	/	Pass
		5755	RU484	Left	1	37.954	/	Pass
		5795	RU484	Left	1	37.988	/	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	1	78.902	/	Pass
		5290	RU996	Left	1	78.617	/	Pass
		5530	RU996	Left	1	77.577	/	Pass
		5610	RU996	Left	1	77.627	/	Pass
		5775	RU996	Left	1	77.588	/	Pass
802.11ax (HEW160)	MIMO	5570	2xRU996	Left	1	156.729	/	Pass
		5250	2xRU996	Left	1	160.061	/	Pass



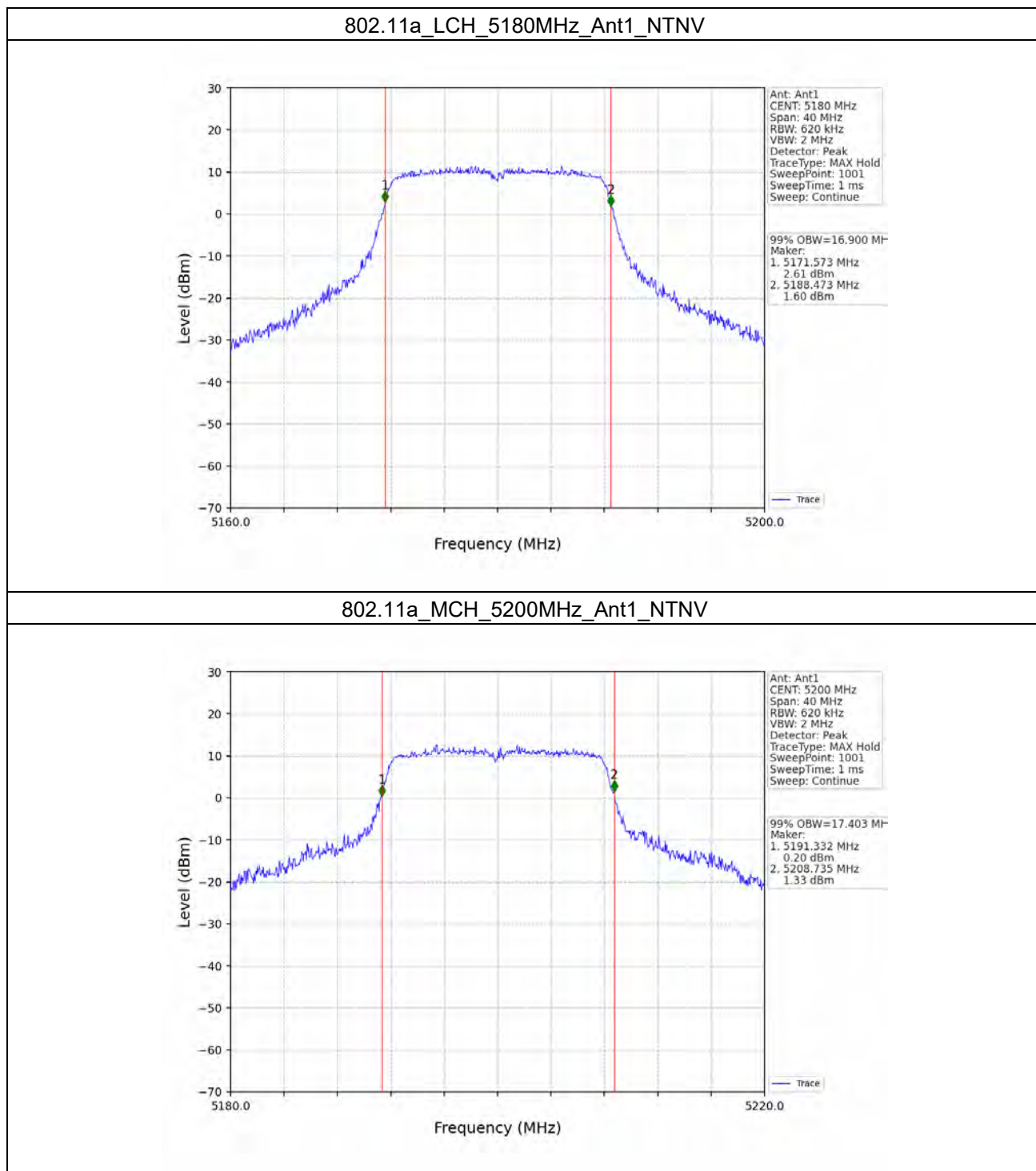
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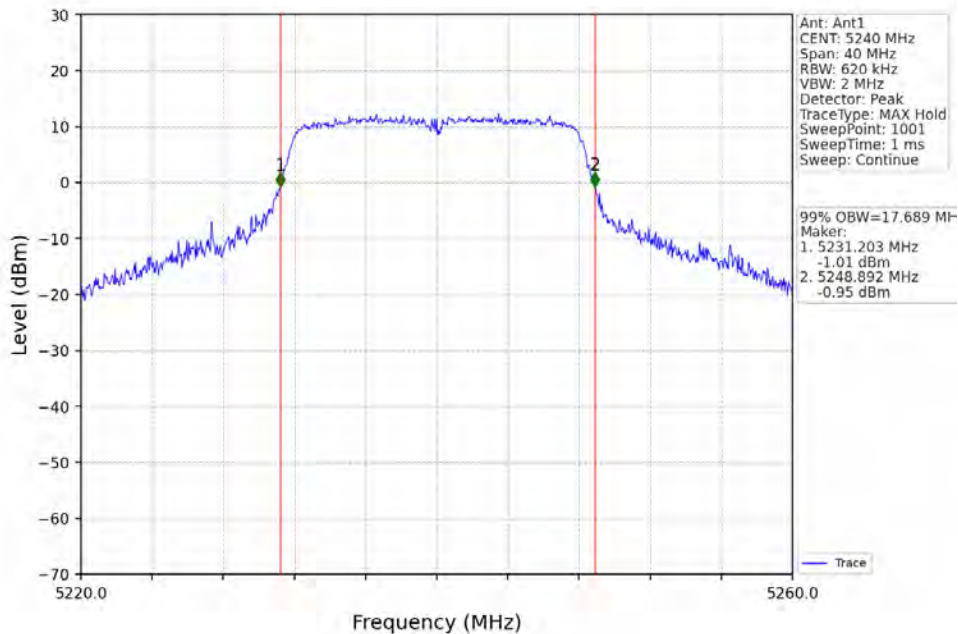
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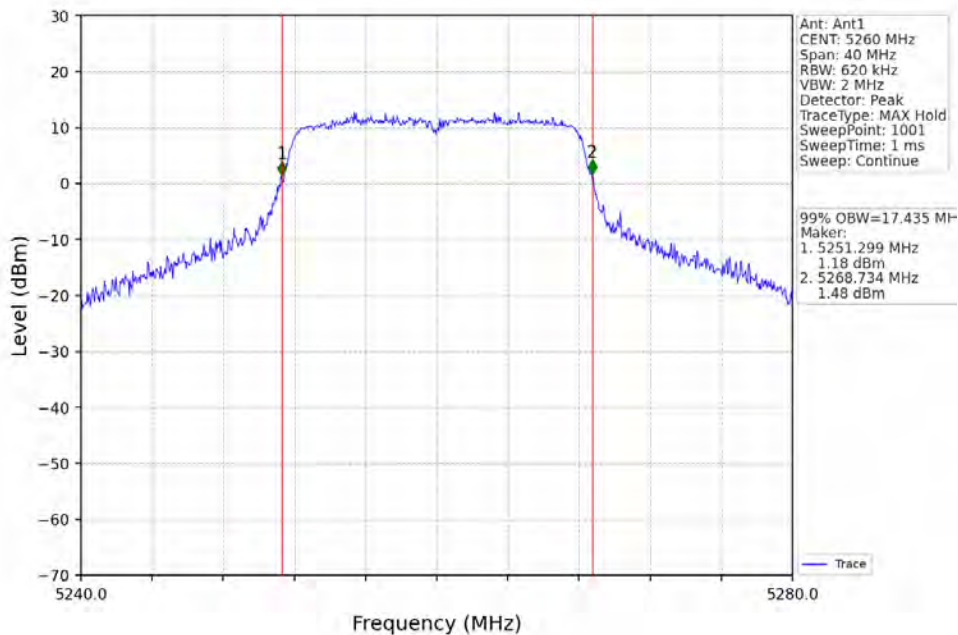
2.1.2 Test Graph



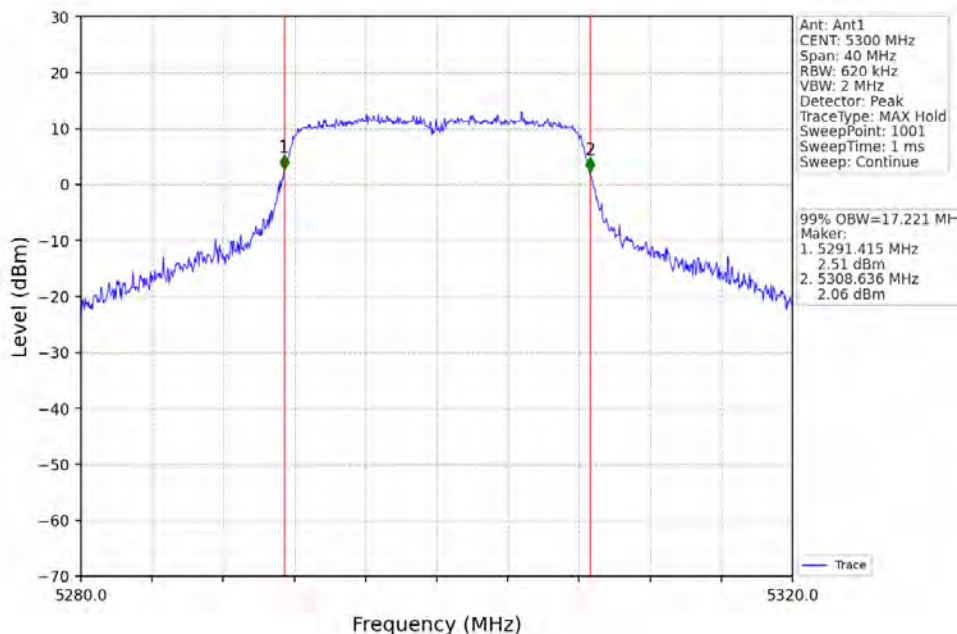
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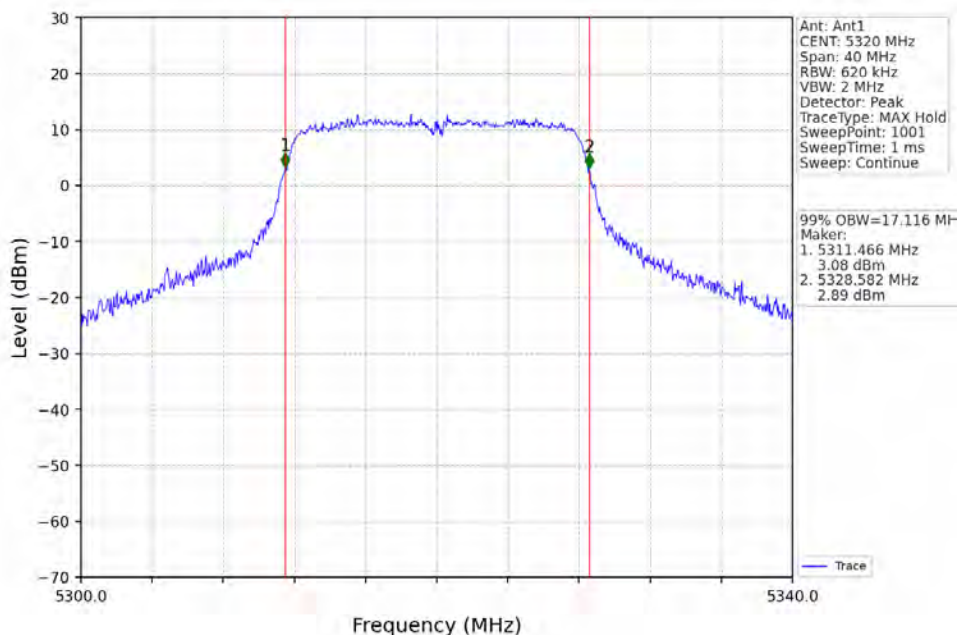
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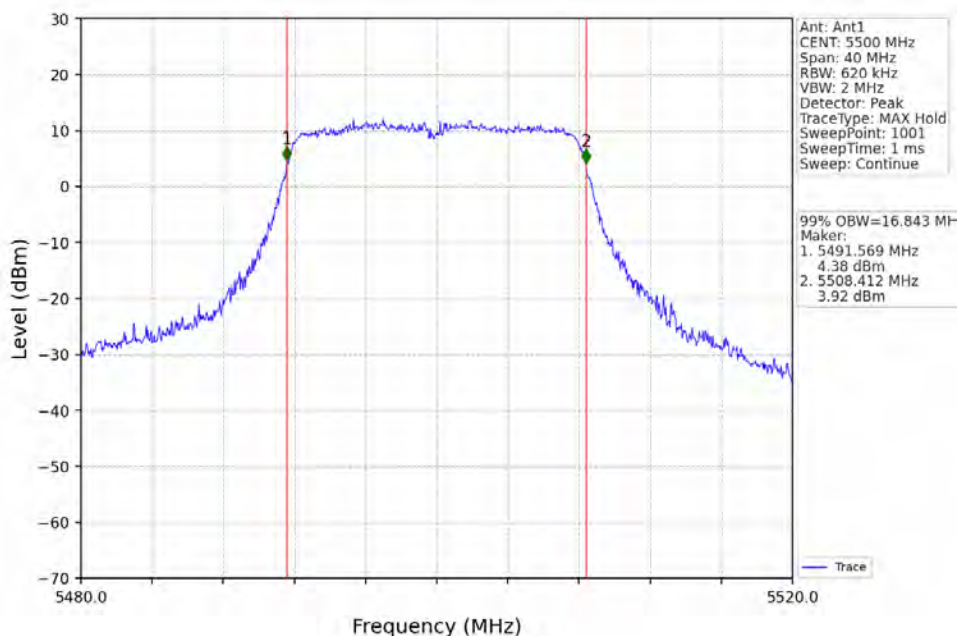
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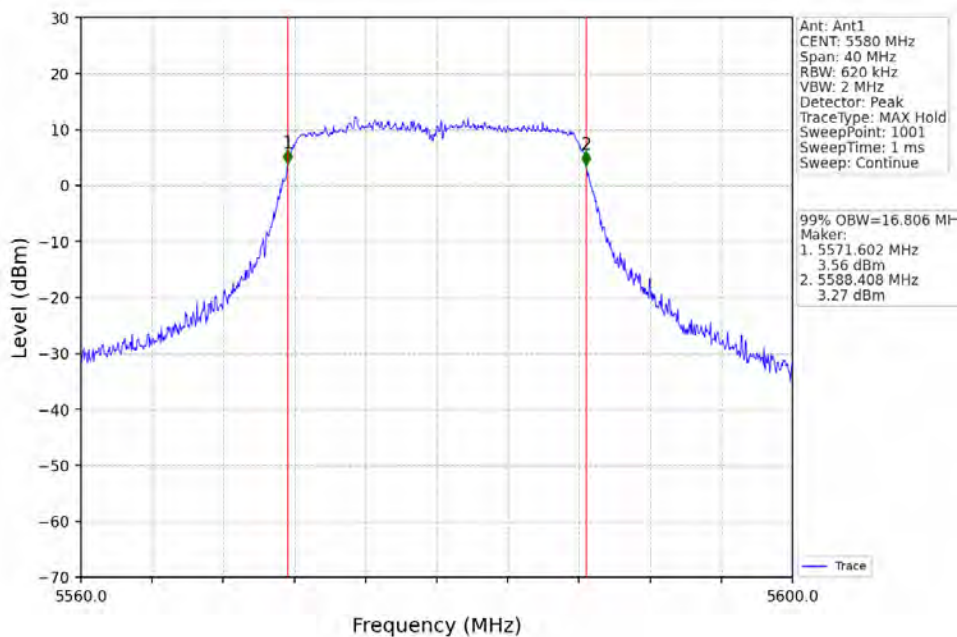
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802.11a_LCH_5500MHz_Ant1_NTNV



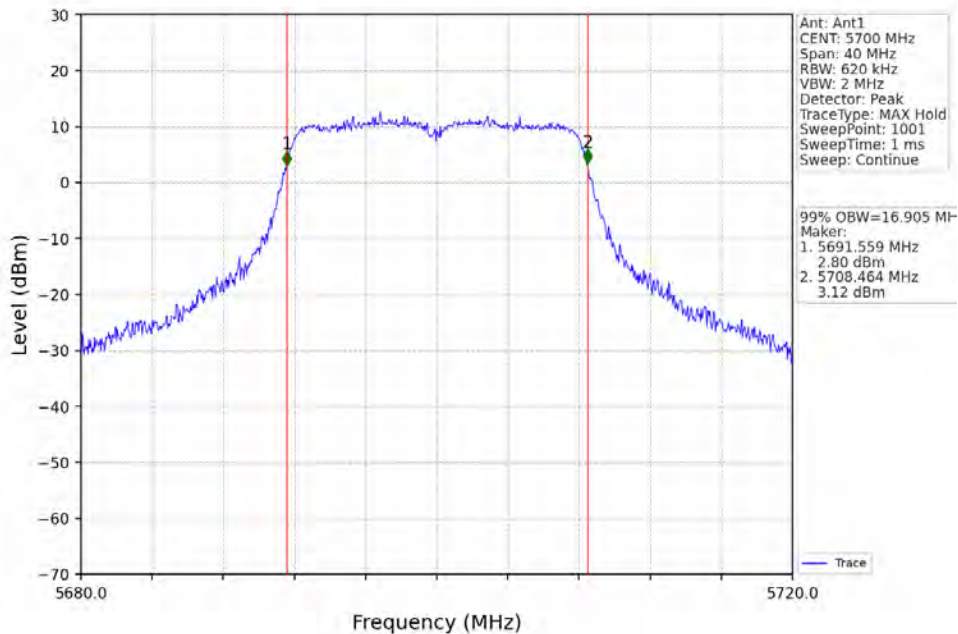
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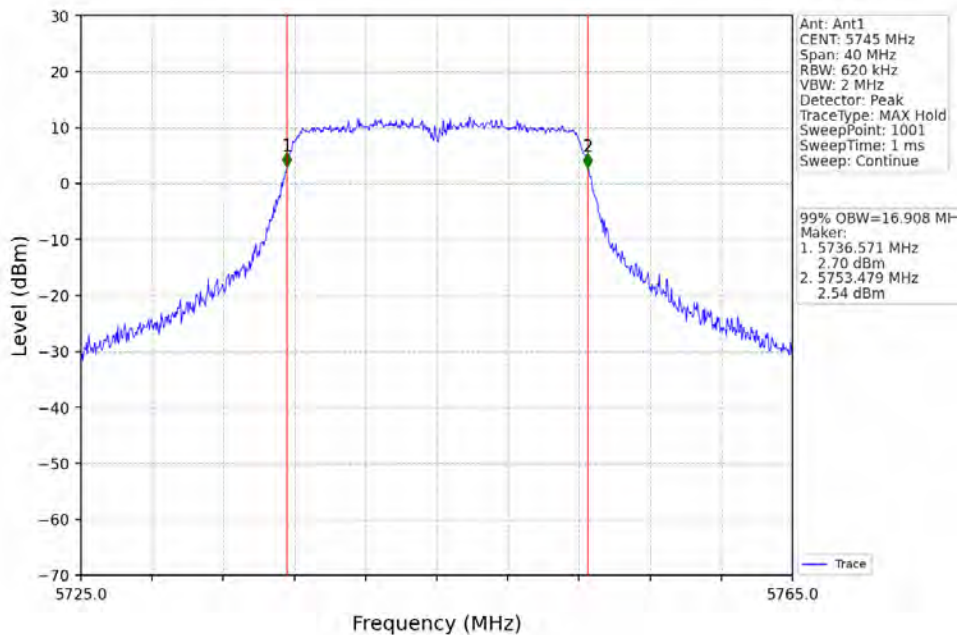
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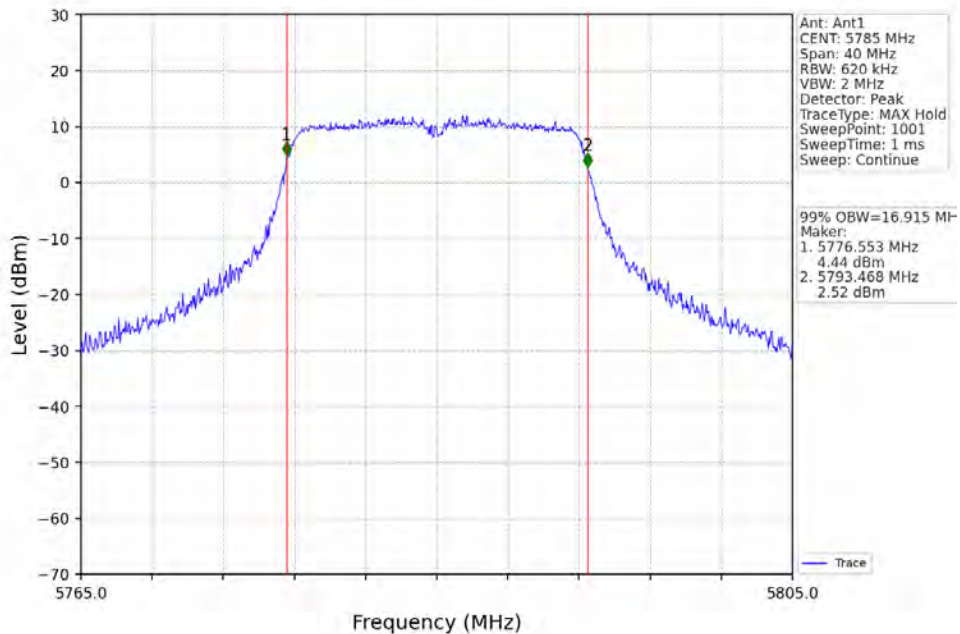
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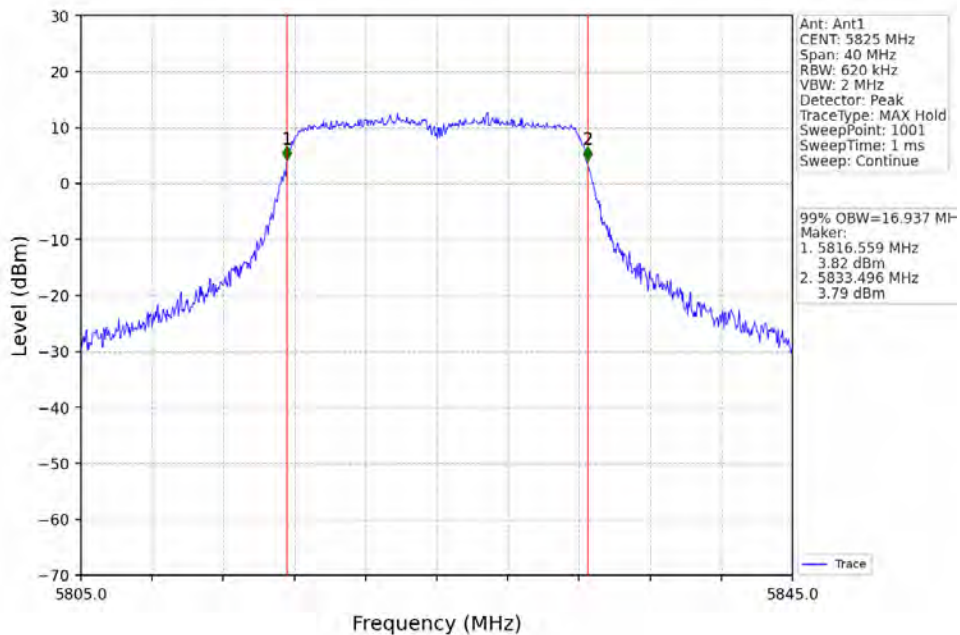
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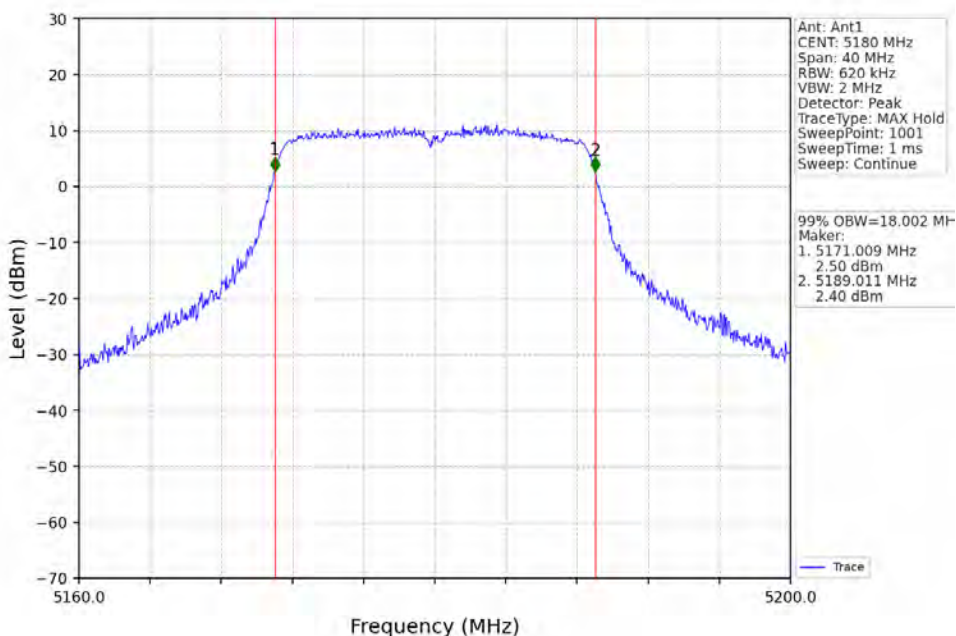
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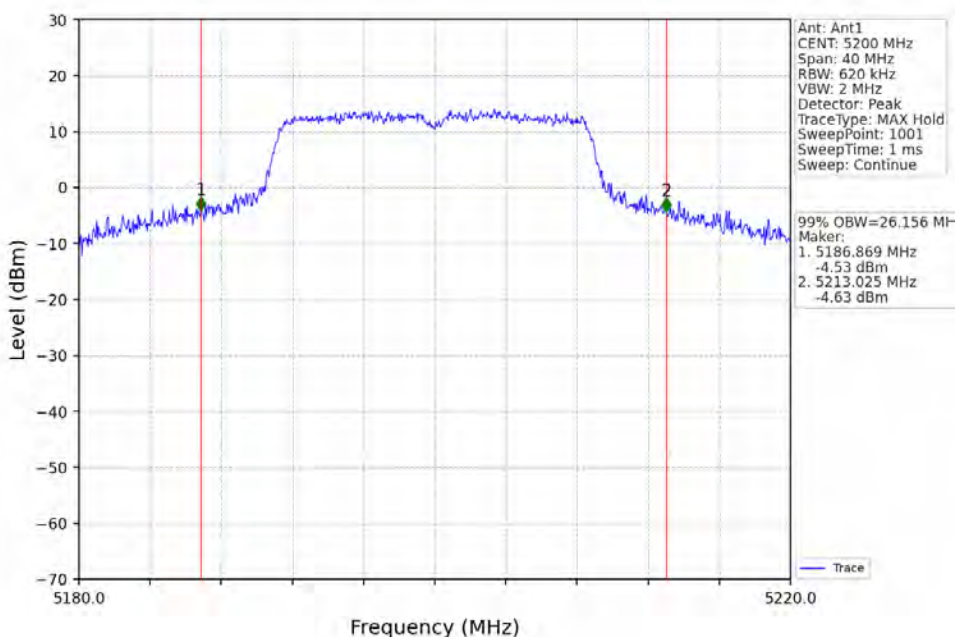
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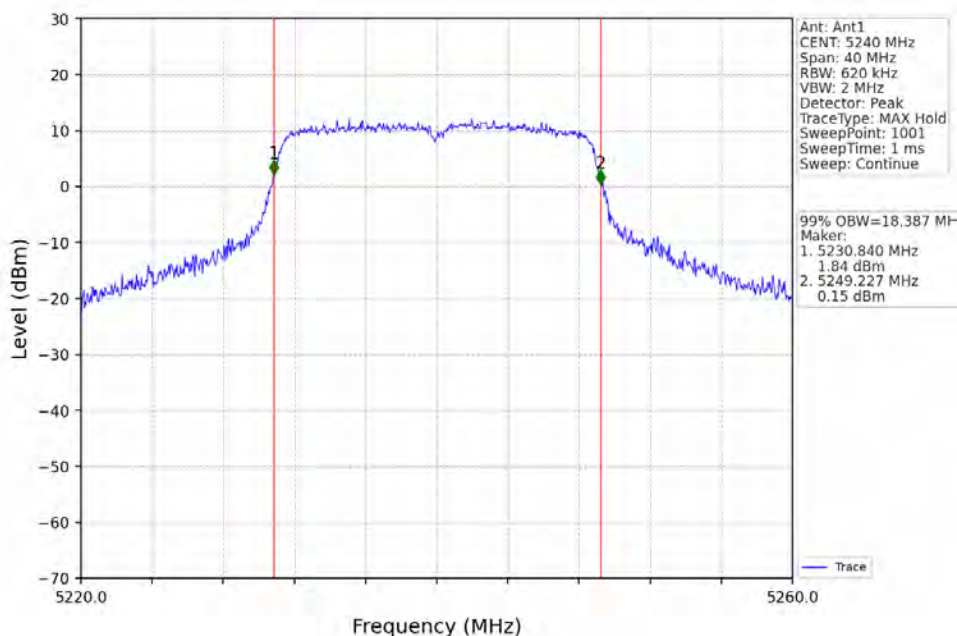
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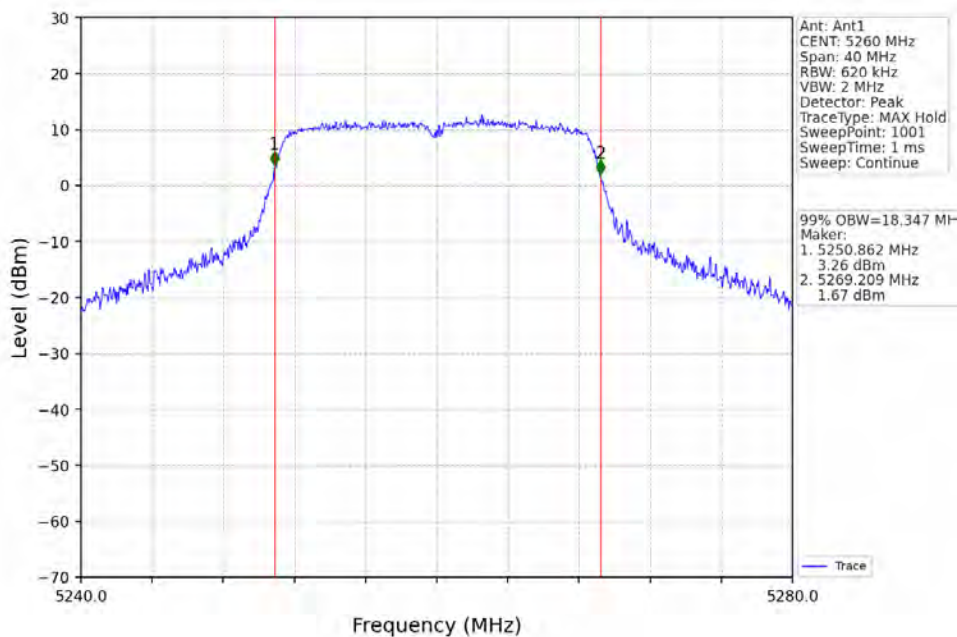
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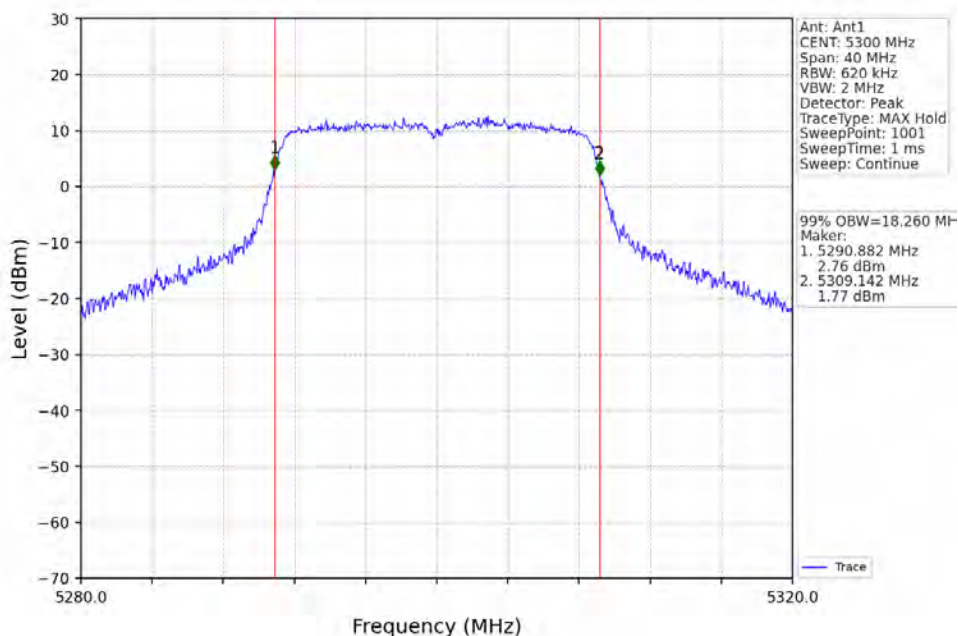
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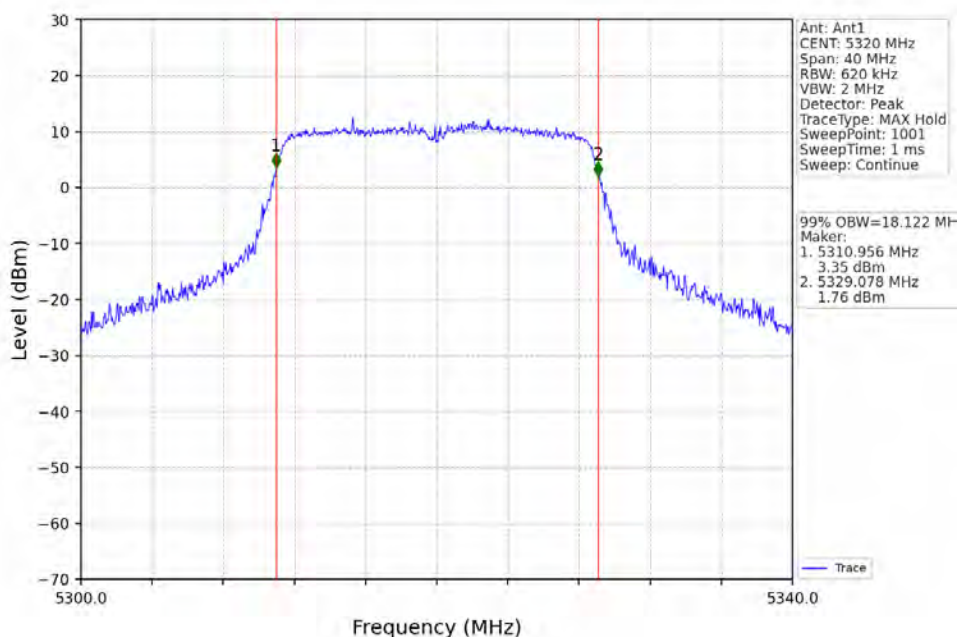
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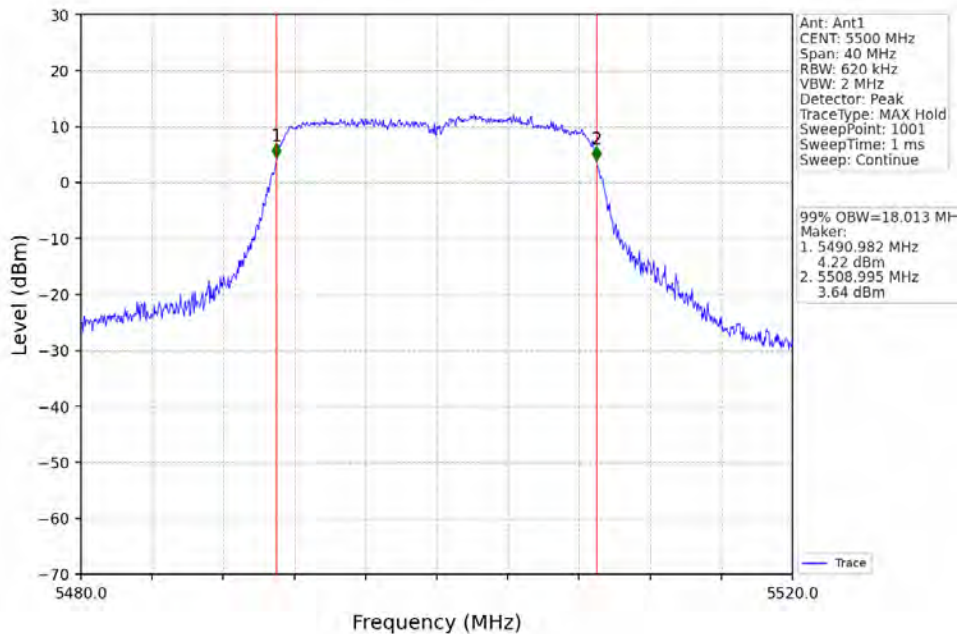
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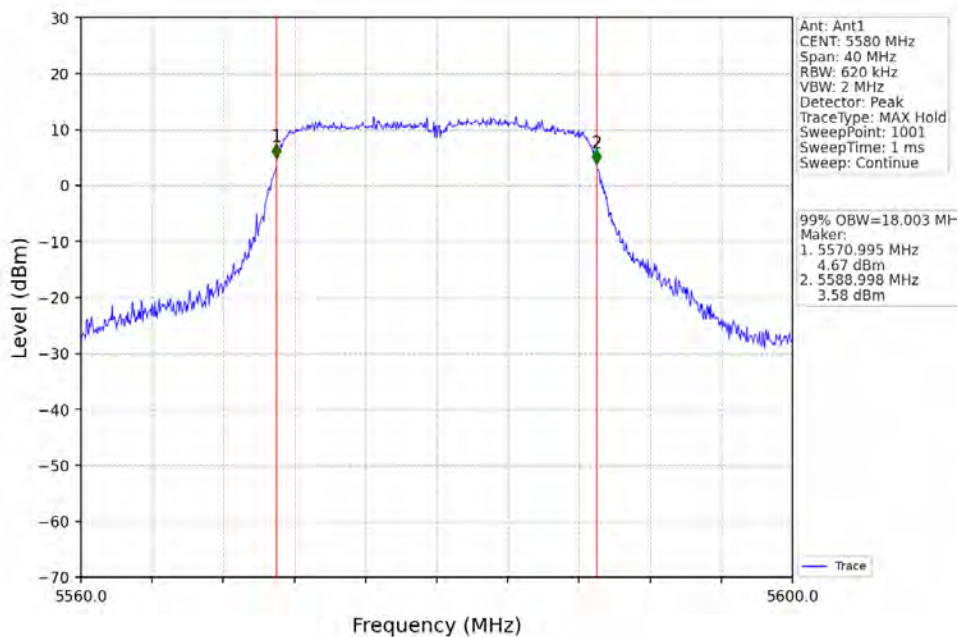
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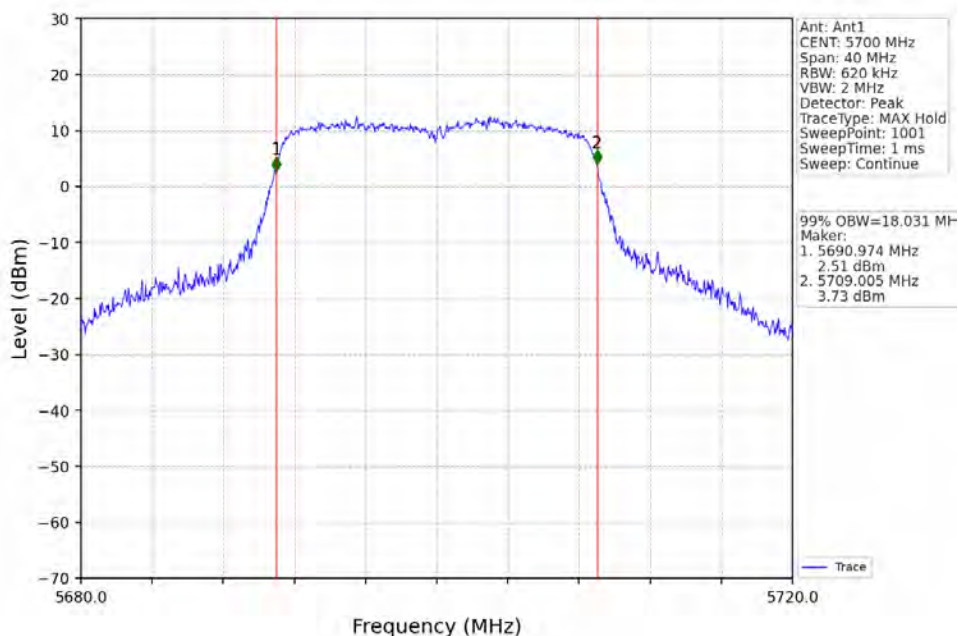
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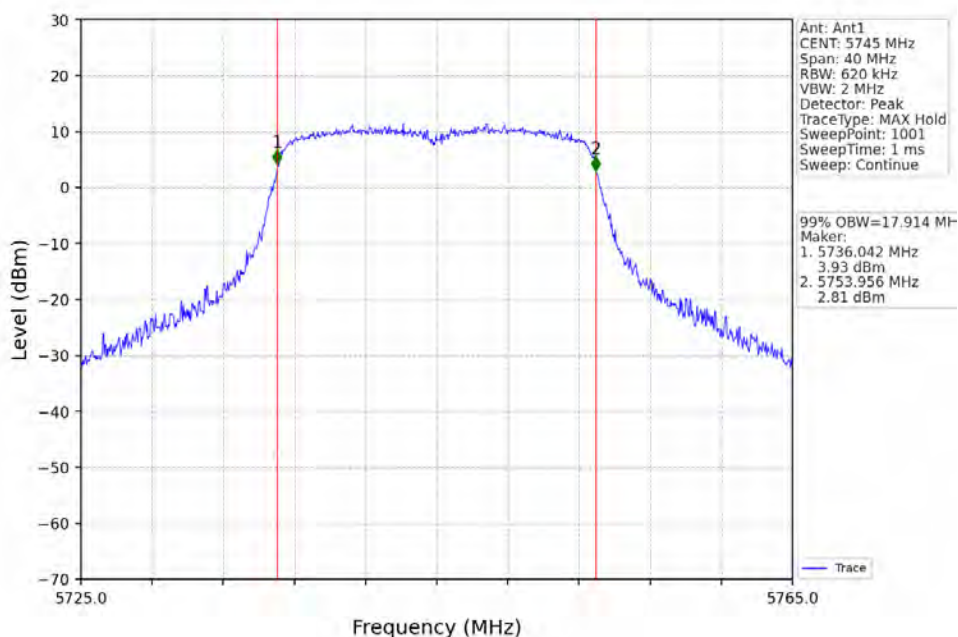
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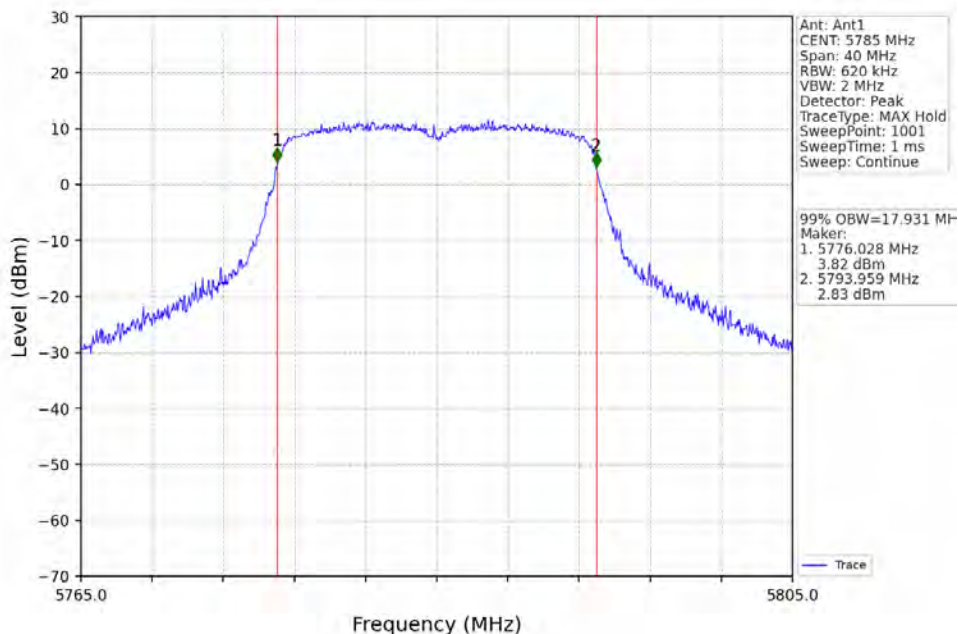
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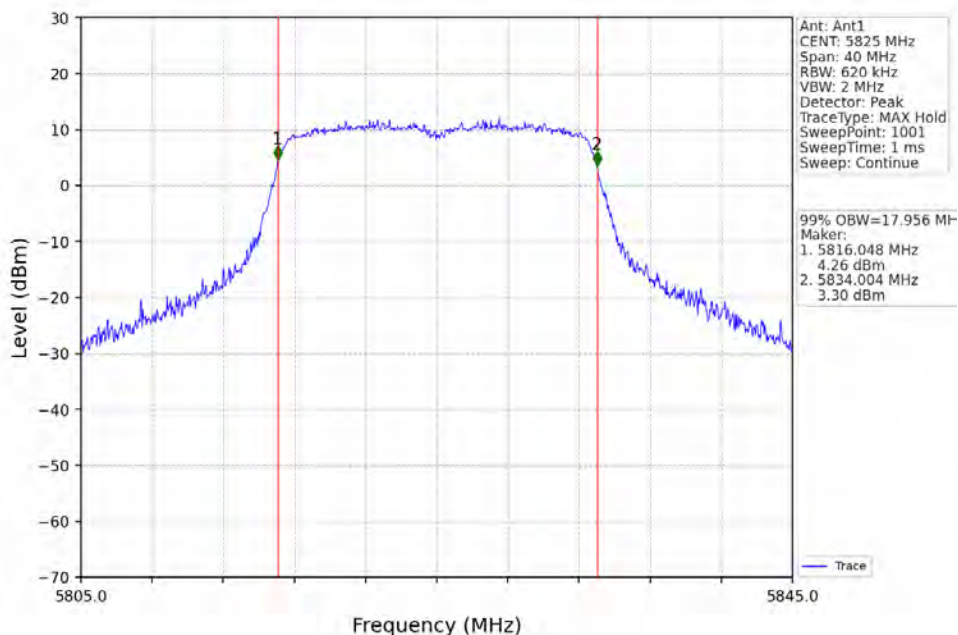
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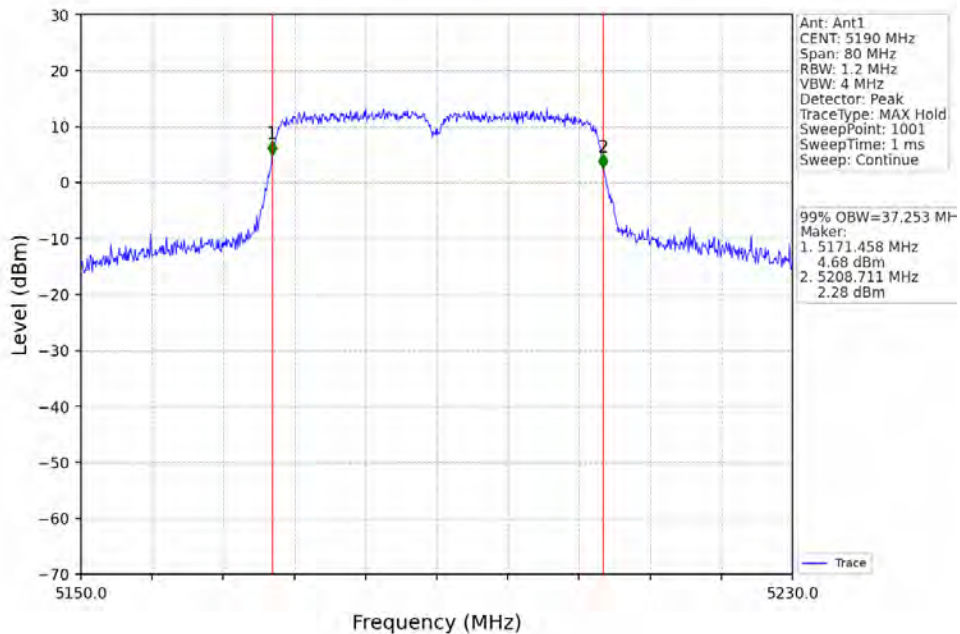
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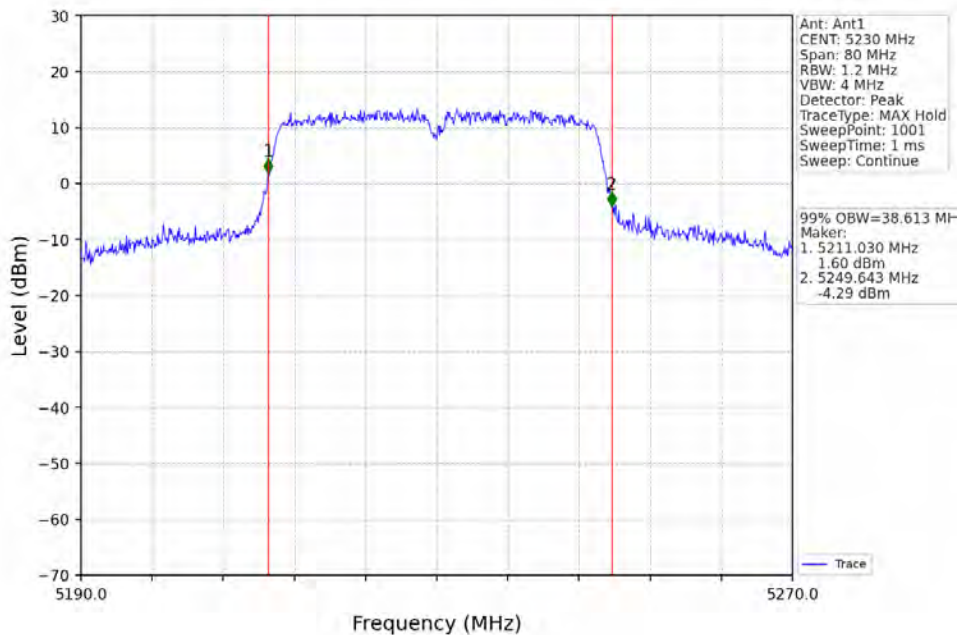
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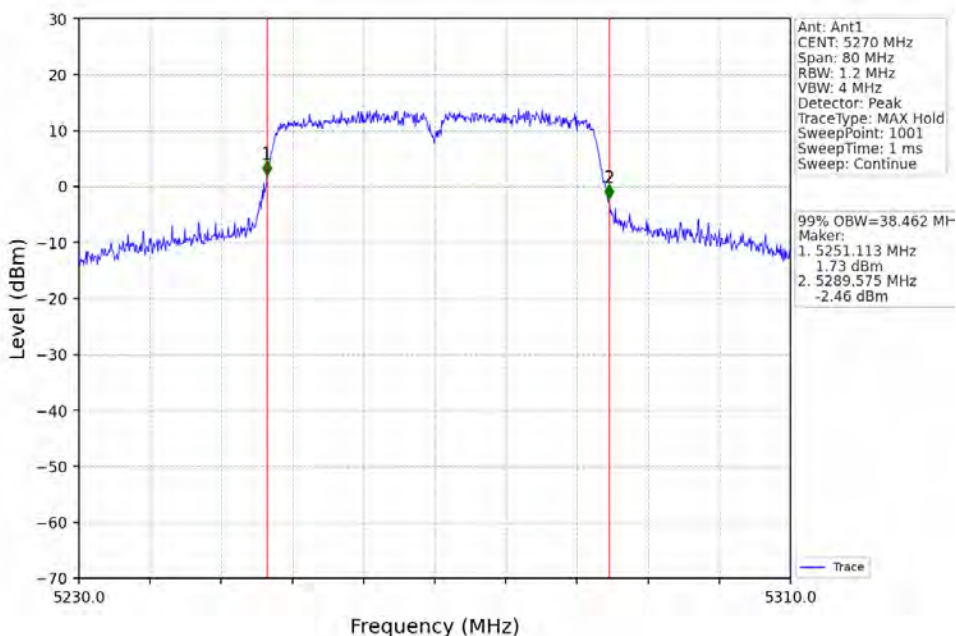
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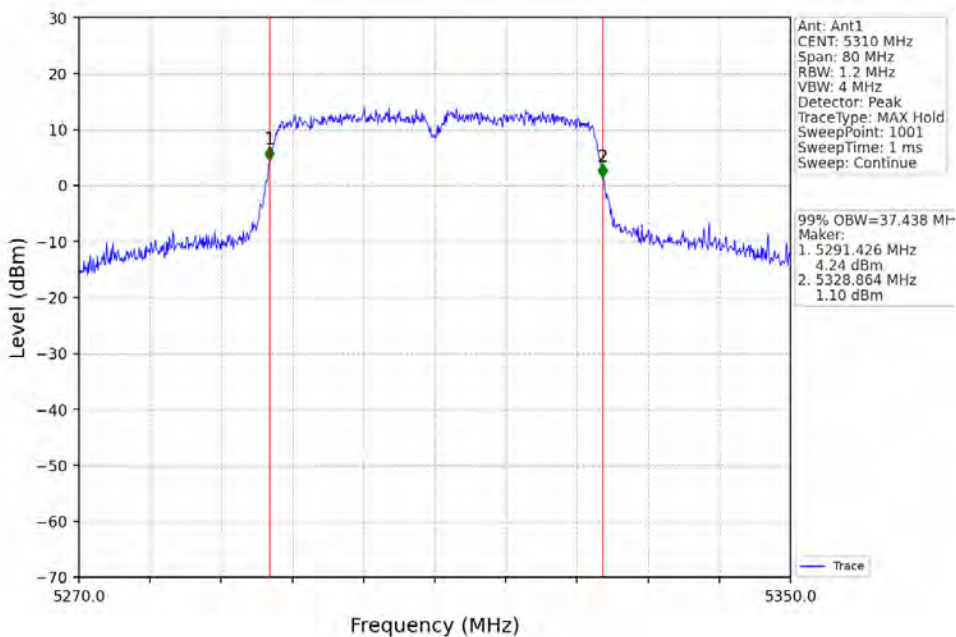
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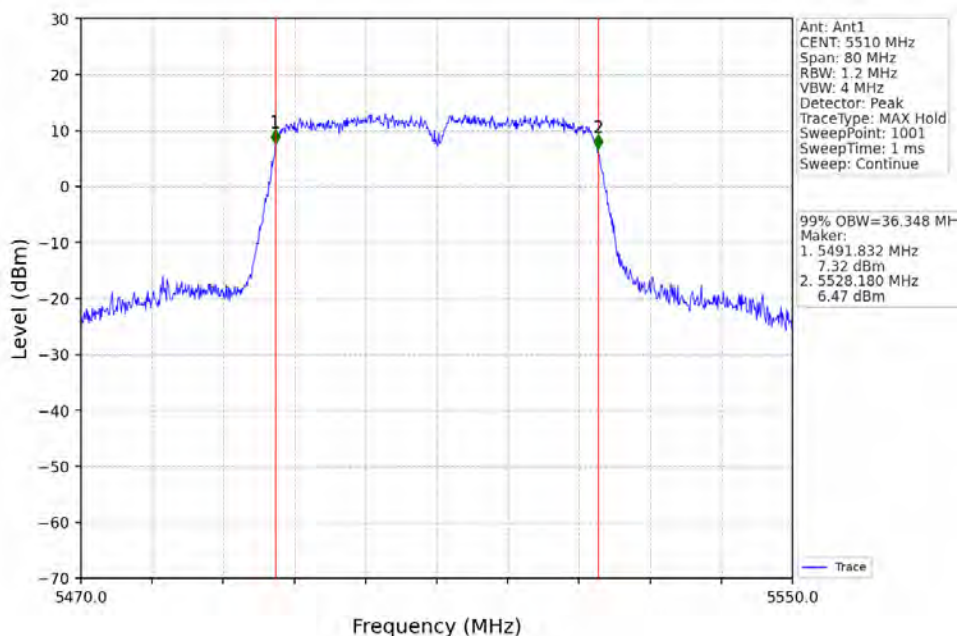
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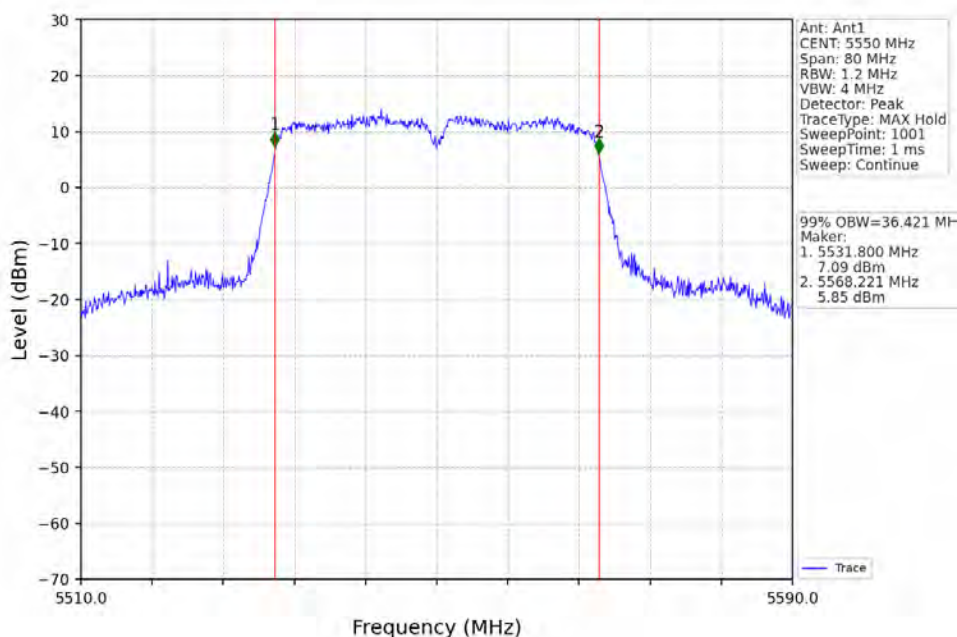
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



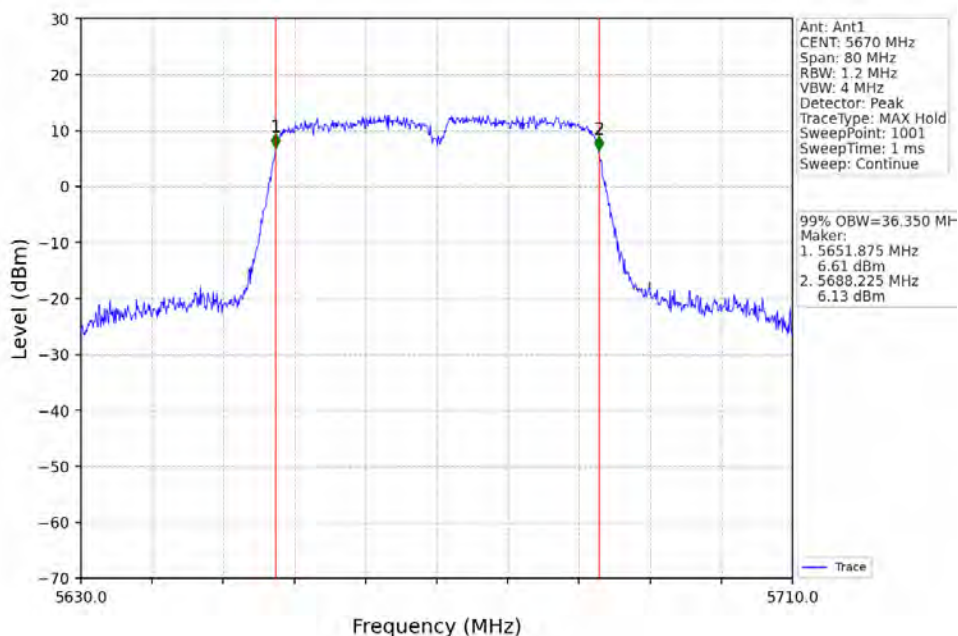
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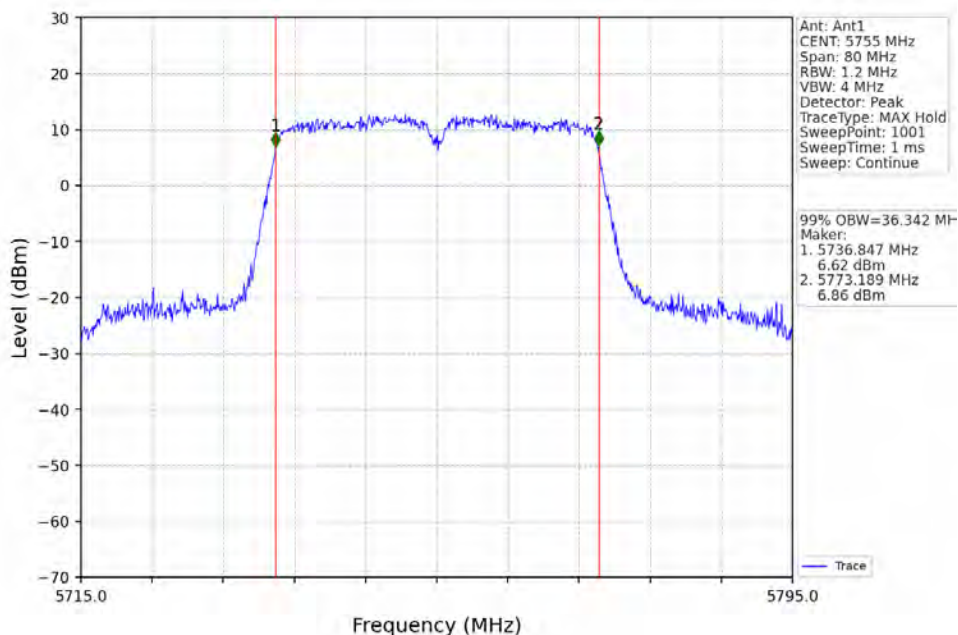
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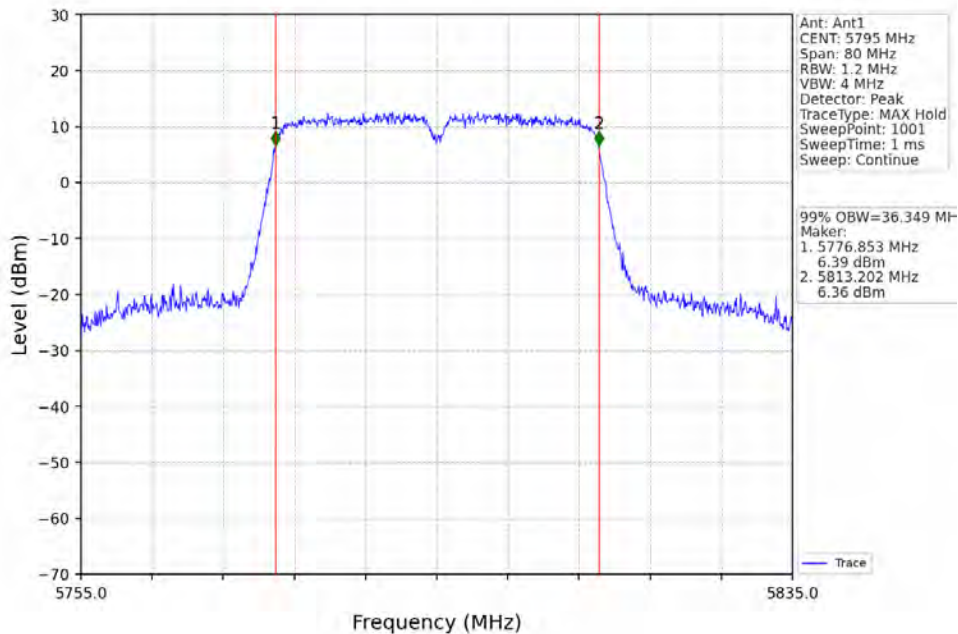
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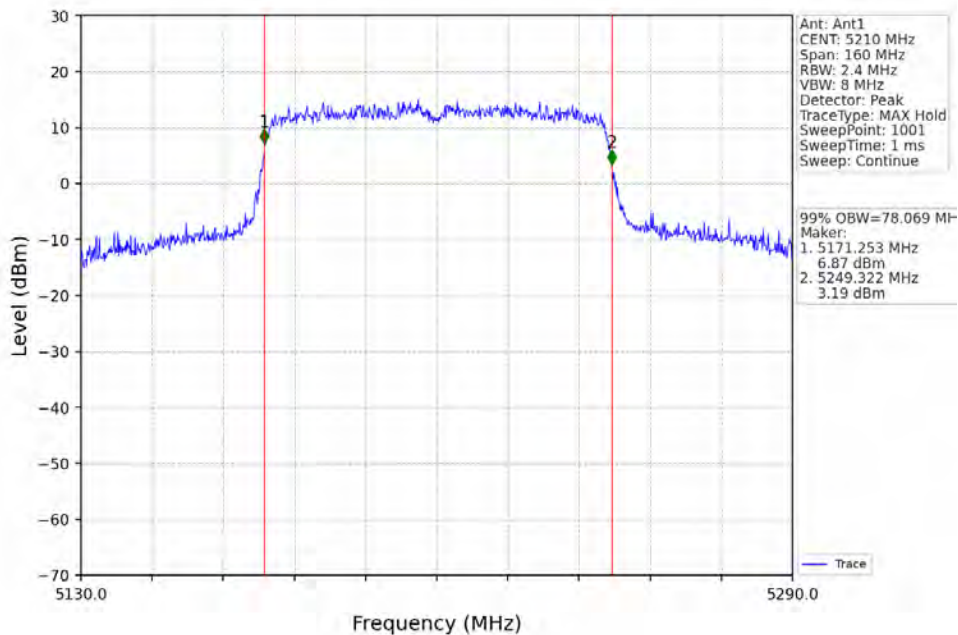
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



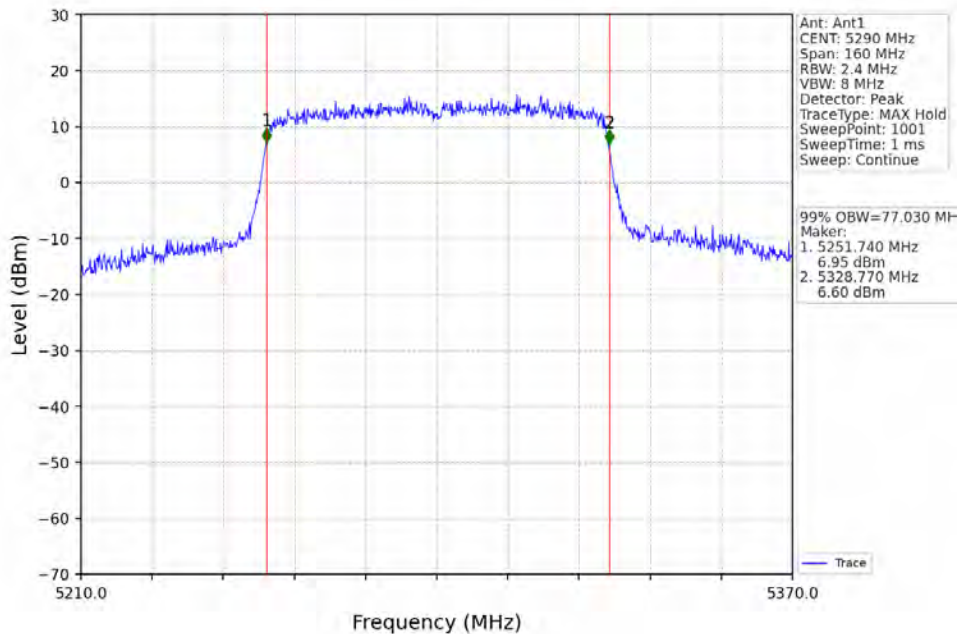
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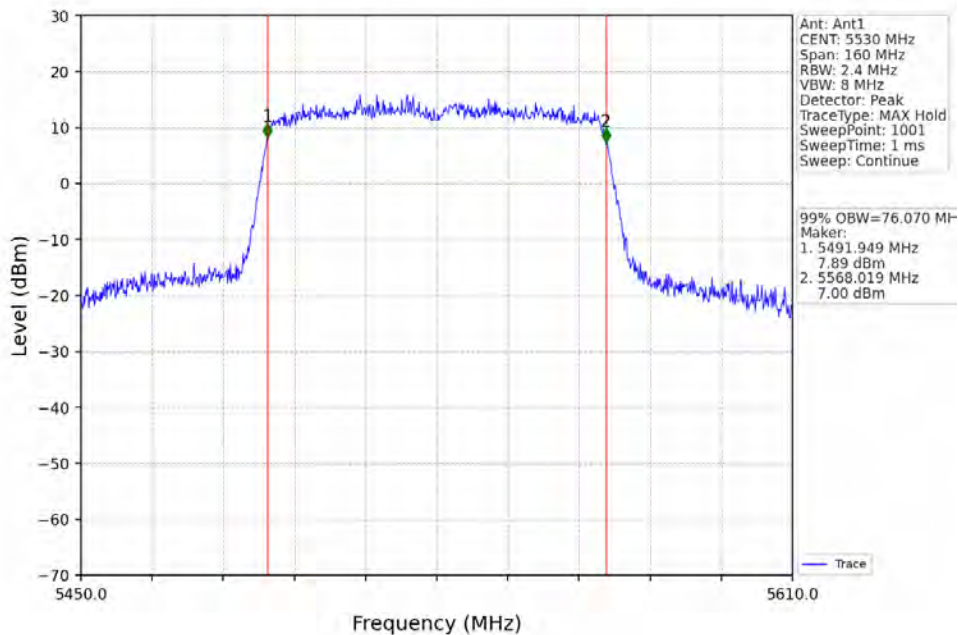
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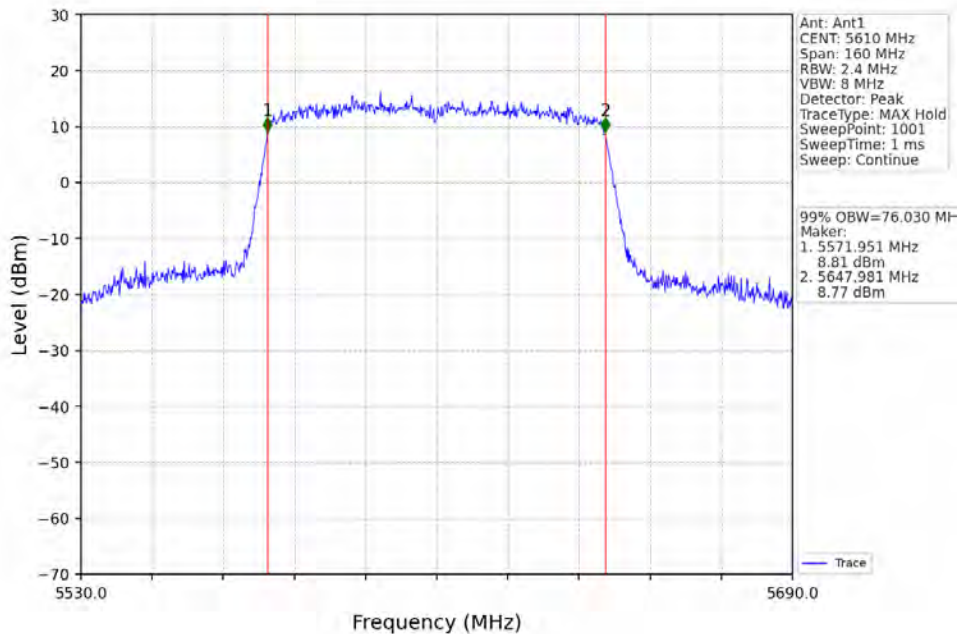
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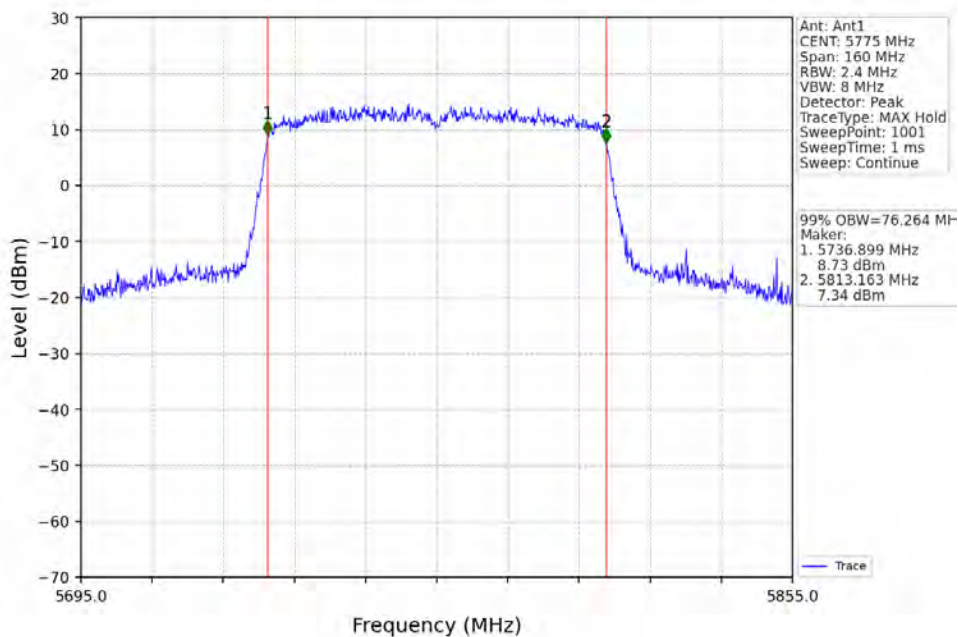
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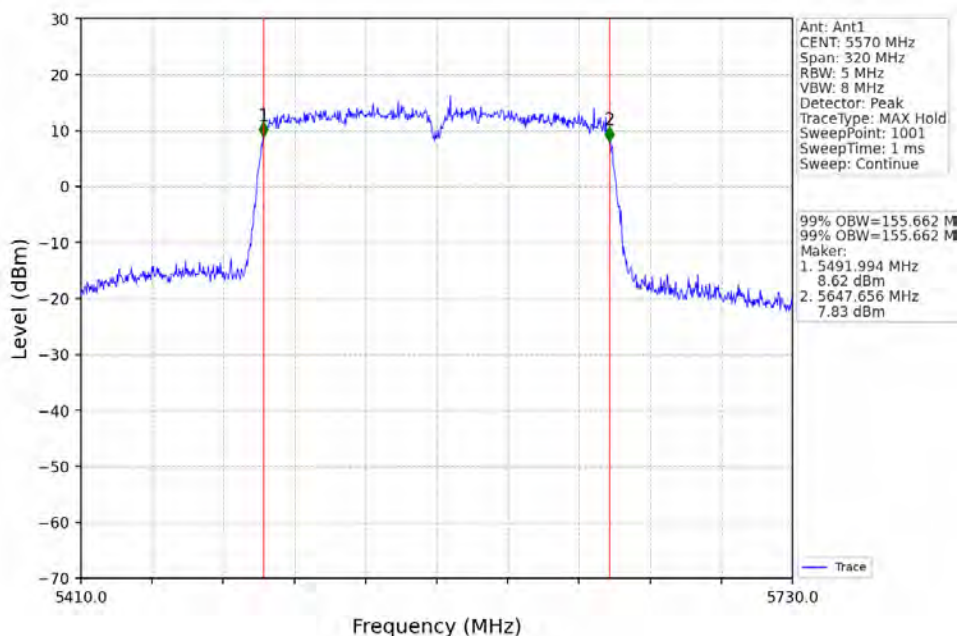
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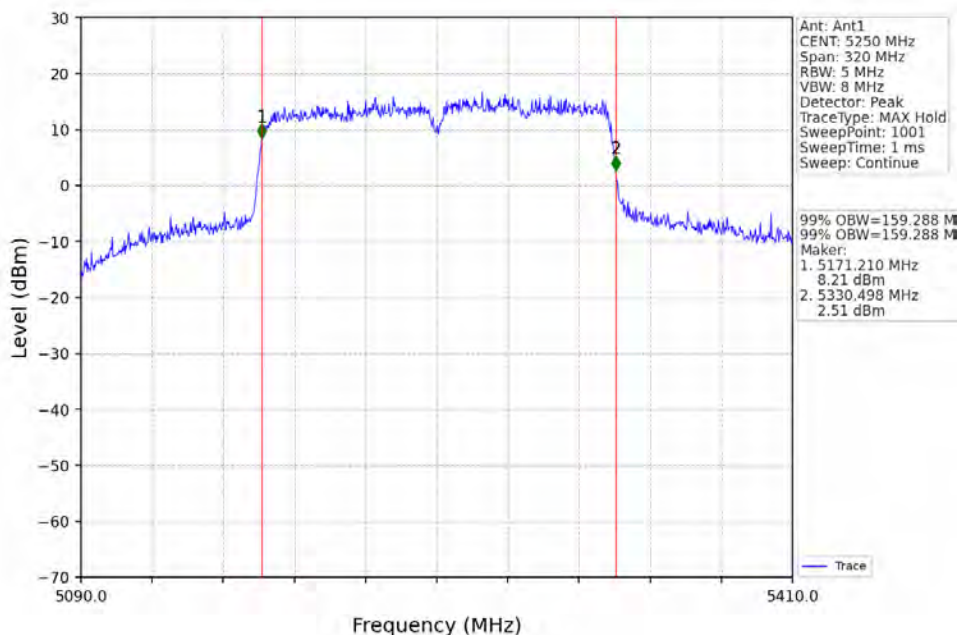
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802.11ac(VHT160)_MCH_5570MHz_Ant1_NTNV



802.11ac(VHT160)_MCH_5250MHz_Ant1_NTNV



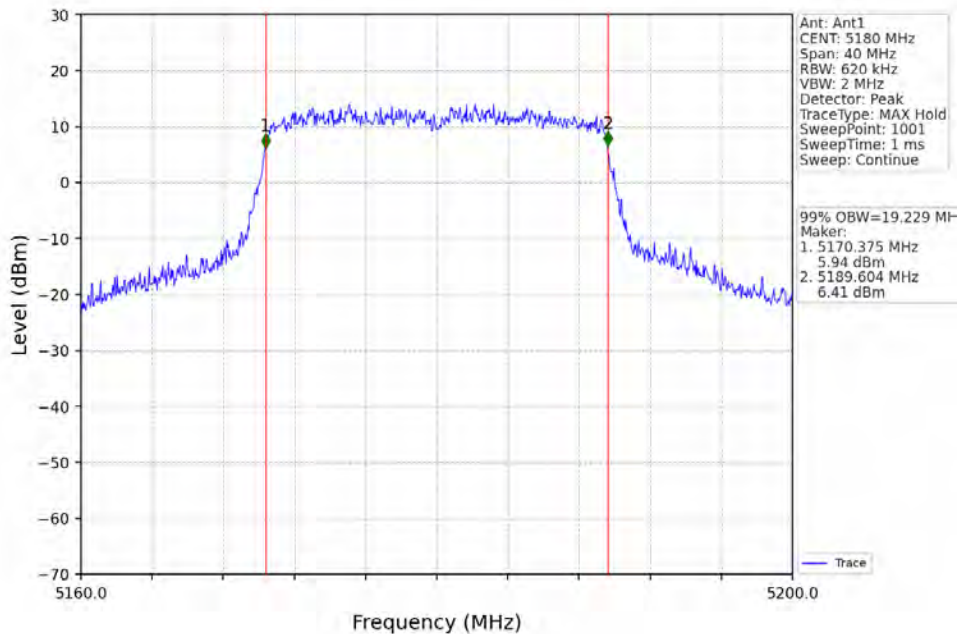
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802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_MCH_5200MHz_RU242_Left_Ant1_NTNV

